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ABSTRACT

During the March through July 1981 period a total of 36 Federal agencies and their subdivisions (95 individual respondents) submitted data in response to the Annual Survey of Federal Funds for Research and Development, Volume XXX, conducted by the National Science Foundation. The detailed statistical tables presented in this report were derived from the survey. Research and development (R&D) totals in these tables are given in both outlays and obligations, and the R&D obligational data are distributed by character of work, performer, field of science (for research but not development), and Federal R&D support by state. Obligations for research performance at universities and colleges by field of science are also shown and R&D plant data are provided. The amounts reported for each year of the survey include the obligations or outlays incurred in that year, regardless of the time the funds may have been authorized, appropriated, or received by an agency and regardless of whether the funds are identified in an agency's budget specifically for research, development, or R&D plant. In the tables, data for 1980 are considered to be actual since they represent virtually completed transactions. Data for 1981 and 1982 are estimated since they do not represent final actions. (Author/JN)

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federal funds for research and development: fiscal years 1980, 1981, and 1982

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VOLUME XXX

NSF 81-325

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NOTE: For trend comparisons, use only the historical data contained in tables C-108 through C-121 in this *Federal Funds, Volume XXX* series. Do not use data published earlier. These tables incorporate changes made by the agencies in prior year data to reflect program reclassifications. ***Detailed Historical Tables: Fiscal Years 1970-82*** will be published under separate cover.

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general notes

The tables in appendix C have been derived from the *Federal Funds for Research and Development*, Volume XXX survey. This survey represents a later and more detailed classification of the R&D portion of the Federal budget than the data that appeared in a chapter of *Special Analyses, Budget of the United States Government, Fiscal Year 1982*, "Special Analysis K: Research and Development" and a later Office of Management and Budget (OMB) paper entitled "Research and Development Revisions to the Fiscal Years 1981 and 1982 Budgets, March 1981," issued in April 1981. The data in the *Federal Funds Detailed Statistical Tables* show R&D funding levels as reported by 95 Federal agencies in March through July 1981 following the revised budget of the new administration, published March 10, 1981. All agencies with R&D programs were covered.

R&D totals in these tables are given in both outlays and obligations, and the R&D obligational data are distributed by character of work, performer, field of science (for research but not development), and Federal R&D support by State. Obligations for research performance at universities and colleges by fields of science are also shown. R&D plant data are further provided.

The amounts reported for each year of this survey include the obligations or outlays incurred in that year, regardless of the time the funds may have been authorized, appropriated, or received by an agency and regardless of whether the funds are identified in an agency's budget specifically for research, development, or R&D plant.

In the tables, data for 1980 are considered to be actual since they represent virtually completed transactions. Data for 1981 and 1982 are estimated since they do not represent final actions. The timing of the *Federal Funds* survey coincided with the second and third quarters of fiscal year 1981, and therefore the amounts reported for 1981 reflect congressional appropriation actions prior but not subsequent to this period, and they do not reflect later appropriation, apportionment, and reprogramming decisions. They do not reflect congressional action on rescissions proposed by the new administration for 1981. Data for 1982 represent budget proposals that have not been acted on. The effects of later authorization, appropriation, deferral, and apportionment actions will be reflected in later surveys of this series.

To some extent the agencies must rely on judgment in classifying the data. Most R&D programs have to be identified by respondents within larger programs since they are not shown as budget line items. A further element of respondent judgment is often involved in determining which areas constitute basic research, applied research, development, and specific fields of science.

Other limitations to the data should be noted. R&D plant data are understated because of the difficulty encountered by some agencies in identifying R&D plant within contracts for research and development. The Department of Defense (DOD) can identify only limited portions of R&D plant in contracts funded from the research, development, test, and evaluation (RDT&E) appropriation. The National Aeronautics and Space Administration (NASA) faces a similar problem in reporting R&D plant data.

Despite the fact that the differences between the *Federal Funds* requirements and the internal reporting systems of many agencies may call for judgment, the reporting experience of most agencies and their interaction over the years with the National Science Foundation (NSF) staff have worked to increase the reliability of the data. Sometimes agencies revise their reporting concepts, and the revisions in the most recent data are important enough to warrant revisions of prior-year data. In the current survey, for example, DOD revised concepts for basic research and applied research and, to a lesser extent, for development. Prior-year data have been adjusted accordingly. **Therefore, only the historical data contained in appendix C (tables C-108 through C-121) should be used and not those in previously published appendix tables.**

The report, *Federal Funds for Research and Development, Volume* XXX, will be published subsequent to the detailed tables. It will contain an analysis of the R&D portion of the 1982 Federal budget, focusing on R&D support under a new administration philosophy. A portion of the report will be an R&D analysis by budget function. The report will provide a number of summary tables and charts but will not include the detailed statistical tables contained in this volume.

Inquiries relating to *Federal Funds, Volume* XXX should be directed to the National Science Foundation, Division of Science Resources Studies, Washington, D.C. 20550. Telephone: (202) 634-4636.

appendix a

technical notes

scope and method

During the March through July 1981 period a total of 36 Federal agencies and their subdivisions—95 individual respondents—submitted data in response to the *Annual Survey of Federal Funds for Research and Development, Volume XXX*, conducted by the National Science Foundation (NSF) with initital distribution in February 1981. In nearly all cases the data received from the agencies were in terms of obligations and outlays incurred, or expected to be incurred, regardless of when the funds were appropriated or whether they were identified in the respondents' budgets specifically for R&D activities. The exception was the National Aeronautics and Space Administration (NASA), for which the same kinds of transactions were reported in terms of budget plan, which approximates obligations.

Federal agencies provided R&D data earlier to the Office of Management and Budget (OMB) for inclusion in "Special Analysis K: Research and Development" in *The Budget of the United States Government, Fiscal Year 1982*, which was part of the budget document presented to the Congress in January 1981. The next administration revised the 1982 budget as part of a broad anti-inflationary and economic revitalization program, and in April OMB issued a paper, "Research and Development Revisions to the Fiscal Years 1981 and 1982 Budgets, March 1981," that summarized proposed rescissions in fiscal year 1981 R&D programs and budget amendments to fiscal year 1982 R&D programs for leading R&D support agencies. The agencies, in reporting to the *Federal Funds* survey for fiscal years 1980, 1981, and 1982, incorporated these revisions. The R&D data in the OMB documents and in the *Federal Funds* survey were based on the same definitions and are reconcilable, but the data in the *Federal Funds* survey cover smaller R&D support agencies not covered by OMB and are classified in greater detail.

definitions

The definitions are essentially unchanged from prior *Federal Funds* surveys.

1. research, development, and r&d plant

This heading includes all direct, indirect, incidental, or related costs resulting from or necessary to research, development, and R&D plant, regardless of whether the research and development are performed by a Federal agency (intramurally) or performed by private individuals and organizations under grant or contract (extramurally). Research and development exclude routine product testing, quality control, mapping and surveys, collection of general-purpose statistics, experimental production, and the training of scientific personnel.

a. **Research** is systematic study directed toward fuller scientific knowledge or understanding of the subject studied. Research is classified as either basic or applied according to the objectives of the sponsoring agency.

> In **basic research** the objective of the sponsoring agency is to gain fuller knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications toward processes or products in mind.
>
> In **applied research** the objective of the sponsoring agency is to gain knowledge or understanding necessary for determining the means by which a recognized and specific need may be met.

b. **Development** is systematic use of the knowledge or understanding gained from research, directed toward the production of useful materials, devices, systems, or methods, including design and development of prototypes and processes. It excludes quality control, routine product testing, and production.

c. **R&D plant** (R&D facilities and fixed equipment, such as reactors, wind tunnels, and radio telescopes) includes acquisition of, construction of, major repairs to, or alterations in structures, works, equipment, facilities, or land, for use in R&D activities at Federal or non-Federal installations. Excluded from the R&D plant category are expendable equipment and office furniture and equipment. Obligations for foreign R&D plant are limited to Federal funds for facilities located abroad and used in support of foreign research and development.

2. obligations and outlays

a. **Obligations** represent the amounts for orders placed, contracts awarded, services received, and similar transactions during a given period, regardless of when the funds were appropriated and when future payment of money is required.

b. **Outlays** represent the amounts for checks issued and cash payments made during a given period, regardless of when the funds were appropriated.

The obligations and outlays reported cover all transactions from all funds available to an agency from direct appropriations, trust funds, or special account receipts, corporate income, or other sources, including funds appropriated by the President, that the agency has received or expects to receive. The amounts reported for each year reflect obligations and outlays for that year regardless of when the funds were originally authorized or received and regardless of whether they were appropriated, received, or identified in the agency's budget specifically for research, development, or R&D plant.

An agency making a transfer of funds to another agency includes such transfers in its report of obligations and outlays. The receiving agency does not report, for purposes of this survey, funds transferred to it from another agency. Similarly, a subdivision of an agency that transfers funds to another subdivision within that agency reports such obligations or outlays as its own.

Obligations and outlays for work performed in foreign countries include funds directly available to Federal agencies and special foreign currencies separately appropriated. The latter currencies are derived largely from provisions of Public Law 480, 1954, as amended.

3. cost coverage

Funds reported for research and development reflect full costs. In addition to costs of specific R&D projects, the applicable overhead costs are also included. The amounts reported include the costs of planning and administering R&D programs, laboratory overhead, pay of military personnel, and departmental administration.

4. fiscal year

The fiscal year in the Federal Government accounting period begins October 1 of a given year and ends September 30 of the following year; thus, fiscal year 1980 began on October 1, 1979, and ended September 30, 1980.

5. agency

An agency is an organization of the Federal Government whose principal executive officer reports to the President. The only exception is the Library of Congress, also included in the survey, whose executive officer reports to the Congress. The term subdivision refers to any major organizational unit of a reporting agency, such as a bureau, administration, office, or service.

6. performers

Performers are either intramural organizations accomplishing operating functions or extramural organizations or persons receiving support or providing services under a contract or grant.

a. **Intramural performers:** Agencies of the Federal Government. Their work is carried on directly by their own personnel. Obligations reported under this category are for activities performed directly by a reporting agency, or they represent funds that the agency transfers to another Federal agency for performance of work. The ultimate performer must be a Federal agency. If the ultimate performer is *not* a Federal agency, the funds so transferred are reported by the transferring agency under the appropriate extramural performer category (industrial firms, universities, and colleges, other nonprofit institutions, etc.). Intramural performance includes the costs of supplies and equipment, essentially of an "off-the-shelf" nature, that are procured for use in intramural research and development. The cost of Federal personnel engaged in planning and administering intramural and extramural R&D programs are also included as part of the intramural performance total.

b. **Extramural performers:** All organizations outside the Federal sector that perform with Federal funds under contract or grant. Only those costs associated with actual extramural R&D performance are reported, but these would include costs of materials and supplies to carry out R&D activities. Costs of "off-the-shelf" supplies and equipment procured from extramural suppliers and required to support intramural research and development are considered as part of the costs of intramural performance and not as part of the costs of extramural performance. Extramural performers are identified as follows:

i. **Industrial firms:** Those organizations that may legally distribute net earnings to individuals or to other organizations.

ii. **Universities and colleges:** Institutions engaged primarily in providing resident and/or accredited instruction for at least a 2-year program above the secondary school level. Included are colleges of liberal arts; schools of arts and sciences; professional schools, as in engineering and medicine, including affiliated hospitals; associated research institutes; and agricultural experiment stations.

iii. **Other nonprofit institutions:** Private organizations other than educational institutions, no part of whose net earnings insure to the benefit of a private stockholder or individual, and other private organizations organized for the exclusive purpose of turning over their entire net earnings to such nonprofit institutions.

iv. **Federally funded research and development centers (FFRDC's):** R&D-performing organizations exclusively or substantially financed by the Federal Government that are supported by the Federal Government either to meet a particular R&D objective or, in some instances, to provide major facilities at universities for research and associated training purposes. Each center is administered by one of the above types of extramural performer.

In general, all of the following criteria are met by an institutional unit before it is included in the FFRDC category: (1) Its primary activities include one or more of the following: Basic research, applied research, development, or management of research and development (specifically excluded are organizations engaged primarily in routine quality control and testing, routine service activities, production, mapping and surveys, and information dissemination); (2) it is a separate operational unit within the parent organization or is organized as a separately incorporated organization; (3) it performs actual research and development or R&D management either upon direct request of the Federal Government, but in either case under the direct monitorship of the Federal Government; (4) it receives its major financial support (70 percent or more) from the Federal Government, usually from one agency; (5) it has, or is expected to have, a long-term relationship with its sponsoring agency (about five years or more), as evidenced by specific obligations assumed by it and the agency; (6) most or all of its facilities are owned or are funded under contract with the Federal Government; and (7) it has an average annual budget (operating and capital equipment) of at least $500,000.

v. **State and local governments:** State and local government agencies, excluding State and local universities and colleges, agricultural experiment stations, medical schools, and affiliated hospitals. (Federal R&D funds obligated directly to such State and local educational institutions are included under the universities-and-colleges category in this survey.) Research and development under the State and local government category are performed either directly by State or local agencies or by other organizations under grant or contract from such agencies. Regardless of the ultimate performer, Federal R&D funds directed to State and local governments are reported under the State-and-local-government category and no other.

vi. **Foreign performers:** Foreign citizens, organizations, or governments, as well as international organizations, such as NATO, UNESCO, WHO, performing work abroad financed by the Federal Government. Excluded are payments to U.S. agencies, organizations, or citizens performing research and development abroad for the Federal Government; the survey does not seek information on "offshore" payments. Also excluded are payments to foreign scientists performing in the United States.

vii. **Private individuals:** Individuals receiving a Federal R&D grant or contract award directly; in this case obligations are reported under "industrial firms."

7. fields of science

The fields of science in this survey are divided into eight broad field categories, each of them consisting of a number of detailed fields. The broad fields are life sciences, psychology, physical sciences, environmental sciences, mathematics and computer sciences, engineering, social sciences, and other sciences not elsewhere classified. The following listing presents the fields grouped under each of the broad fields, together with illustrative disciplines.

a. **Life sciences** consist of five detailed fields: biological (excluding environmental), environmental biology, agricultural, medical, and life sciences not elsewhere classified. The illustrative disciplines provided below under each of these detailed fields are not intended to be sharp definitions; they represent examples of disciplines generally classified under a given detailed field. A discipline, however, may be classified under another detailed field when the major emphasis is elsewhere. Research in biochemistry could be reported as biological, agricultural, or medical, depending on the orientation of the project. Human biochemistry would be classified under biological, but animal biochemistry or plant biochemistry would be under agricultural. Examples of disciplines under each of the detailed fields are as follows:

Biological (excluding environmental): anatomy; biochemistry; biology; biometry and biostatistics; biophysics; botany; cell biology; entomology and parasitology; genetics; microbiology; neuroscience (biological); nutrition; physiology; zoology; other biological, n.e.c.[1]

Environmental biology: ecosystem sciences; evolutionary biology; limnology; physiological ecology; population biology; population and biotic community ecology; systematics; other environmenal biology, n.e.c.[1]

Agricultural: agronomy; animal sciences; food science and technology; fish and wildlife; forestry; horticulture; plant sciences; soils and soil science; phytopathology; phytoproduction; agriculture, general; other agriculture, n.e.c.[1]

Medical: internal medicine; neurology; obstetrics and gynecology; ophthalmology; otolaryngology; pediatrics; preventive medicine; pathology; pharmacology; psychiatry; radiology; surgery; dentistry; pharmacy; veterinary medicine; other medical, n.e.c.[1]

Life sciences, n.e.c.[1]

b. **Psychology** deals with behavior, mental processes, and individual and group characteristics and abilities. Psychology is divided into three categories: biological aspects, social aspects, and psychological sciences not elsewhere classified. Examples of disciplines under each of these fields are as follows:

Biological aspects: experimental psychology; animal behavior; clinical psychology; comparative psychology; ethology.

Social aspects: social psychology; education, personnel, vocational psychology, and testing; industrial and engineering psychology; development and personality.

Psychological sciences, n.e.c.[1]

c. **Physical sciences** are concerned with understanding of the material universe and its phenomena. They comprise the fields of astronomy, chemistry, physics, and physical sciences not elsewhere classified. Examples of disciplines under each of these fields are as follows:

Astronomy: laboratory astrophysics; optical astronomy; radio astronomy; theoretical astrophysics; X-ray, Gamma-ray, neutrino astronomy.

Chemistry: inorganic; organo-metallic; organic; physical.

Physics: acoustics; atomic and molecular; condensed matter; elementary particle; nuclear structure; optics; plasma.

Physical sciences, n.e.c.[1]

d. **Environmental sciences** (terrestrial and extraterrestrial) are concerned (with one exception) with the gross nonbiological properties of the areas of the solar system that directly or indirectly affect man's survival and welfare; they comprise the fields of atmospheric sciences, geological sciences, oceanography, and environmental sciences not elsewhere classified. The one exception is that obligations for sciences pertaining to life in the sea, or other bodies of water, are reported as support of oceanography and not biology. Examples of disciplines under each of these fields are as follows:

Atmospherics sciences: aeronomy; solar; weather modification; extraterrestrial atmospheres; meteorology.

Geological sciences: engineering geophysics; general geology; geodesy and gravity; geomagnetism; hydrology; inorganic geochemistry; isotopic geochemistry; organic geochemistry; laboratory geophysics; paleomagnetism; paleontology; physical geography and cartography; seismology; soil sciences.

Oceanography: biological oceanography; chemical oceanography; physical oceanography; marine geophysics.

Environmental sciences, n.e.c.[1]

e. **Mathematics and computer sciences** employ logical reasoning with the aid of symbols and are concerned with the development of methods of operation employing such symbols, and in the case of computer sciences, with the application of such methods to automatic information systems. Examples of disciplines under each of these fields are as follows:

Mathematics: algebra; analysis; applied mathematics; foundations and logic; geometry; numerical analysis; statistics; topology.

Computer sciences: programming languages; computer and information sciences (general); design development, and application of computer capabilities to data storage and manipulation; information sciences and systems; systems analysis.

Mathematics and computer sciences, n.e.c.[1]

f. **Engineering** is concerned with studies directed toward developing engineering principles or toward making specific scientific principles usable in engineering practice. Engineering is divided into eight fields: aeronautical, astronautical, chemical, civil, electrical, mechanical, metallurgy and materials, and engineering not elsewhere classified. Examples of disciplines under each of these fields are as follows:

Aeronautical: aerodynamics.

Astronautical: aerospace; space technology.

Chemical: petroleum; petroleum refining; process.

Civil: architectural; hydraulic, hydrologic; marine; sanitary and environmental; structural; transportation.

Electrical: communication; electronic; power.

Mechanical: engineering mechanics.

Metallurgy and materials: ceramic; mining; textile; welding.

Engineering, n.e.c.[1] agricultural; industrial and management; nuclear; ocean engineering systems.

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[1] Not elsewhere classified: Includes multiciplinary projects within a broad field and single-discipline projects for which a separate field has not been assigned.

g. **Social sciences** are directed toward an understanding of the behavior of social institutions and groups and of individuals as members of a group. These sciences include anthropology. economics, political science, sociology, and social sciences not elsewhere classified. Examples of disciplines under each of these fields are as follows:

Anthropology: archaeology; cultural and personality; social and ethnology; applied anthropology.
Economics: econometrics and economic statistics; history of economic thought; international economics; industrial, labor, and agricultural economics; macroeconomics; microeconomics; public finance and fiscal policy; theory; economic systems and development.
Political science: area or regional studies; comparative government; history of political ideas; international relations and law; national political and legal systems; political theory; public administration.
Sociology: comparative and historical; complex organizations; culture and social structure; demography; group interactions, social problems and social welfare; sociological theory.
Social sciences, n.e.c.[1] linguistics; research in education; research in history; socioeconomic geography; research in law, e.g., attempts to assess the impact on society of legal systems and practices.

h. **Other sciences not elsewhere classified** includes multidisciplinary and interdisciplinary projects that cannot be classified within one of the broad fields of science.

8. geographic distribution of 1980 r&d obligations

a. Ten agencies participated in the survey covering the geographic distribution of obligations for research and development and R&D plant. These 10 agencies accounted for 95 percent of total Federal R&D and R&D plant obligations in 1980. The respondents were the Departments of Agriculture; Commerce; Defense; Energy; Health and Human Services; the Interior; and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation.

b. Data were requested for the "actual" year 1980 in terms of the principal location (State or outlying area) where the work was performed by the prime contractor, grantee, or intramural organization. When this information was not available in their records, the respondents were asked to assign the obligations to the State, outlying area, or office abroad where the headquarters of the U.S. prime contractor, grantee, or intramural organization was located.

c. Obligations were reported for research and development as a combined amount.

d. Specifically omitted from the geographic survey were R&D obligations to foreign performers and obligations for R&D plant used in support of foreign performers. Foreign performer data, by country, are reported in another part of the *Federal Funds* survey.

changes in reporting

Responses from the agencies in this survey, as in the previous ones, reflect revisions of estimates for the latest two years of the previous report, in this case fiscal years 1980 and 1981. Such revision is part of the budgetary cycle. From time to time responses also reflect reappraisals and revisions in classification of various aspects of agencies' R&D programs. When this occurs, NSF requires the agencies to provide revised prior-year data to maintain consistency and comparability with the most recent concepts.

limitations of the data

Funds for research and development are reported on a 3-year basis comparable with the 1982 budget, upon which the data are based. The respondents have reconciled the data reported here with amounts for research and development provided to OMB for the 1982 budget, as revised. The amounts reported for each year, as already stated, are the obligations or outlays incurred in that year, regardless of when the funds were authorized or received by an agency and regardless of whether or not the funds were identified in the agency's budget specifically for research, development, and/or R&D plant.

Data submitted by the Federal agencies for 1980 are considered to be actual since they represent virtually completed transactions. Amounts reported for 1981 and 1982 are estimates in that they are subject to further appropriation, apportionment, or deferral decisions. The effects of these and other, later actions on 1981 and 1982 outlays and obligations will be reflected in the next report.

Respondent judgment is often necessary in classifying the data. Most agency R&D programs must be separated by agency respondents from other, larger programs because they are not identified as budget line items. R&D programs, once identified, must then be further subdivided into the survey categories: Basic research, applied research, development, performers, and fields of science. Over the years, however, the participating agencies, have developed increasing skill and consistency in meeting the survey requirements.

Some agencies have not been able to report the full cost of research and development. For example, the headquarters costs of planning and administering R&D programs of the Department of Defense (DOD) (estimated at a fraction of 1 percent of the DOD R&D total) are not included because this agency has stated that identification of the amounts is impracticable.

R&D plant data are also to some extent underreported because of the difficulty encountered by some agencies, particularly DOD and NASA, in identifying and reporting these data. While DOD reports obligations for R&D plant under the construction appropriation, DOD is able to identify only a small portion of the R&D plant support within R&D contracts that are funded from the

RDT&E appropriation. NASA cannot separately identify those portions of industrial R&D contracts applicable to R&D plant but subsumes R&D plant data in the R&D data covering industrial performance; R&D plant data for other performing sectors can be and are reported by NASA.

relation to other reports

1. federal support to universities and colleges

NSF conducts a separate survey covering Federal support to individual universities and colleges. This survey is based on data provided by the Federal agencies under the reporting system established by the Committee on Academic Science and Engineering (CASE) of the Federal Council for Science and Technology. The reports resulting from these surveys are entitled *Federal Support to Universities, Colleges, and Selected Nonprofit Institutions* and often are referred to as the CASE reports.

Both the CASE and *Federal Funds* reports provide data on Federal obligations for research and development and R&D plant to universities and colleges and to university-administered FFRDC's. The CASE report, however, is based on obligations of Federal agencies to each individual academic institution, whereas the *Federal Funds* report is concerned with obligations to universities and colleges as a performer group. The CASE report additionally includes funds for non-R&D activities, such as science education and nonscience support. Further, the CASE survey is based on reports of only 15 agencies (the Departments of Agriculture; Commerce; Defense; Education; Energy; Health and Human Services; Housing and Urban Development; the Interior; Labor; and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; the National Science Foundation; the Agency for International Development; and the Nuclear Regulatory Commission) whereas the *Federal Funds* survey is composed of obligations of all agencies. The 15 respondents to CASE, however, account for more than 99 percent of total Federal R&D support to universities and colleges and all obligations to university-administered FFRDC's.

The different reporting procedures have led to the reporting of different totals to the CASE and *Federal Funds* surveys, as follows:

a. The obligations for research and development to universities and colleges reported for *Federal Funds* in 1980 amounted to $4,277 million, or $131 million more than the amount reported for CASE.

b. The R&D obligation total for university-administered FFRDC's, as reported to *Federal Funds*, was $1,592 million in 1980, or $156 million less than reported for CASE. For *Federal Funds* $161 million subcontracted by the NASA university-administered Jet Propulsion Laboratory was included in ultimate-performer categories, whereas for CASE the subcontracted amount was included in the R&D obligations to FFRDC's administered by universities.

c. Total R&D plant obligations to universities and colleges reported to the *Federal Funds* survey were $40 million in 1980, or $2 million more than the amount reported to the CASE survey.

d. Total R&D plant obligations to university-administered FFRDC's, as reported to *Federal Funds*, were $426 million in 1980, or $46 million more than reported to CASE.

The following factors should also be considered in comparing the data appearing in the two reports:

For *Federal Funds* each agency includes as part of its obligations the amounts transferred to other agencies for R&D activities. A receiving agency does not report funds transferred from another agency. In the CASE survey, by contrast, the data are reported by the agency that makes the *final* distribution of the funds to a given institution. Thus, for the CASE survey, agencies include funds received from other agencies and exclude funds transferred to other agencies, the reverse of the *Federal Funds* process. Although such transfers should balance each other out with no resulting changes in total R&D obligations, these reverse reporting practices add to the possibility of differences between the two reports.

The CASE responses are in many cases prepared by different operating units within each agency from those that prepare the *Federal Funds* responses. The CASE data are also collected several months earlier than the *Federal Funds* data. Theoretically these conditions should not add to reporting differences, but in practice differences can arise.

2. special analyses, budget of the united states

In a section of *Special Analyses, Budget of the United States Government*, OMB publishes estimates of obligations and outlays for research, development, and R&D plant. These data, as shown in "Special Analysis K: Research and Development" in the original 1982 budget, did not provide as much detail on character of work and performers as *Federal Funds* data, and they did not include information on fields of science or geographic distribution. The same situation held for the revision of "Special Analysis K."

"Special Analysis K" and *Federal Funds* utilized the same definitions for research and development and for R&D plant. The estimates for research and development published in the two reports are comparable, even through minor differences exist. The comparison between the two reports is as follows:

Total Federal R&D obligations
(Billions of dollars)

	FY 1980	FY 1981	FY 1982
Federal Funds	$31.7	$35.4	$40.6
Special Analysis K (revised) ...	31.7	35.3	40.6

3. federal r&d funding by budget function: fiscal years 1980-82

NSF published a special report under the above title, providing an analysis of Federal R&D programs by budget function categories. The *Federal Funds, Volume XXX* survey, by contrast, reported on R&D funding by agencies rather than functional categories. The *Federal Funds* report provides obligational data rather than budget authority data, which formed the basis for the function report. The R&D budget authority data for 1980-82 in the function report were based on information provided to OMB by the agencies as background for "Special Analysis K" in the 1982 budget plus revised data, submitted later, embodying budget changes. Further program information was based on budget and budget amendment justification documents of the leading R&D support agencies and information provided directly to NSF by some of the smaller agencies.

4. other reports

a. Agencies may classify their R&D programs for purposes other than those for which the *Federal Funds* survey is conducted. Definitions and guidelines that are suitable to these other purposes may result in information that is not comparable with the data transmitted to NSF for *Federal Funds*.

appendix b

federally funded research and development centers: fiscal years 1980-82

department of defense

office of the secretary of defense

Administered by other nonprofit institutions:

Institute for Defense Analyses (IDA), Arlington, Virginia

department of the navy

Administered by universities and colleges:

Center for Naval Analyses (University of Rochester), Arlington, Virginia

department of the air force

Administered by universities and colleges:

Lincoln Laboratory (Massachusetts Institute of Technology), Lexington, Massachusetts

Administered by other nonprofit institutions:

Aerospace Corporation, El Segundo, California

C^3 Division (MITRE Corporation),[1] Bedford, Massachusetts

Project Air Force (RAND Corporation),[2] Santa Monica, California

department of health and human services

national institutes of health

Administered by industrial firms:

Frederick Cancer Research Center (Litton Bionetics, Inc., Litton Industries), Frederick, Maryland

department of energy

Administered by industrial firms:

Bettis Atomic Power Laboratory (Westinghouse Electric Corp.), Pittsburgh, Pennsylvania

Hanford Engineering Development Laboratory (Westinghouse-Hanford Corp.), Richland, Washington

Idaho National Engineering Laboratory (EG&G Idaho, Inc.), Idaho Falls, Idaho

Knolls Atomic Power Laboratory (General Electric Company), Schenectady, New York

Energy Technology Engineering Center (Rockwell International Corporation), Santa Susana, California

Mound Laboratory (Monsanto Research Corp.), Miamisburg, Ohio

Oak Ridge National Laboratory (Union Carbide Corp.), Oak Ridge, Tennessee

Sandia National Laboratories (Western Electric Co., Inc.-Sandia Corp.), Albuquerque, New Mexico

Savannah River Laboratory (E.I. duPont de Nemours & Co., Inc.), Aiken, South Carolina

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[1] Only the C^3 Division of the MITRE Corporation is reported as an FFRDC. All other agency support to MITRE is reported under "other nonprofit institutions excluding FFRDC's."

[2] Only the Project Air Force portion of the RAND Corporation is reported as an FFRDC. All other agency support to RAND is reported under "nonprofit institutions excluding FFRDC's."

Administered by universities and colleges:

- Ames Laboratory (Iowa State University of Science and Technology), Ames, Iowa
- Argonne National Laboratory (University of Chicago and Argonne Universities Assn.), Argonne, Illinois
- Brookhaven National Laboratory (Associated Universities, Inc.), Upton, Long Island, New York
- E. O. Lawrence Berkeley Laboratory (University of California), Berkeley, California
- E. O. Lawrence Livermore National Laboratory (University of California), Livermore, California
- Fermilab (Universities Research Association, Inc.), Batavia, Illinois
- Los Alamos National Laboratory (University of California), Los Alamos, New Mexico
- Oak Ridge Institute of Nuclear Studies (Oak Ridge Associated Universities), Oak Ridge, Tennessee
- Plasma Physics Laboratory (Princeton University), Princeton, New Jersey
- Stanford Linear Accelerator Center (Stanford University), Stanford, California

Administered by other nonprofit institutions:

- Pacific Northwest Laboratory (Battelle Memorial Institute), Richland, Washington
- Solar Energy Research Institute (Midwest Research Institute), Golden, Colorado

national aeronautics and space administration

Administered by universities and colleges:

- Jet Propulsion Laboratory (California Institute of Technology), Pasadena, California

national science foundation

Administered by universities and colleges:

- Cerro Tololo Inter-American Observatory (Association of Universities for Research in Astronomy, Inc.), La Serena, Chile
- Kitt Peak National Observatory (Association of Universities for Research in Astronomy, Inc.), Tucson, Arizona
- National Astronomy and Ionosphere Center (Cornell University), Arecibo, Puerto Rico
- National Center for Atmospheric Research (University Corporation for Atmospheric Research), Boulder, Colorado
- National Radio Astronomy Observatory (Associated Universities, Inc), Green Bank, West Virginia
- Sacramento Peak Observatory (Association of Universities for Research in Astronomy, Inc.), Sunspot, New Mexico

appendix c

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- Estimates for 1982 are based on *The Budget of the United States Government, Fiscal Year 1982* and *Fiscal Year 1982 Budget Revisions, March 1981*, as submitted to Congress by the administration, and do not reflect subsequent appropriations and apportionment actions.
- Details may not add to totals because of rounding.
- Asterisks appearing in lieu of figures indicate that the amounts are less than $50,000 or less than .05 percent.
- The abbreviation "FFRDC's" appearing in statistical tables refers to federally funded research and development centers.
- In tables showing extramural performers, obligations of the Department of Agriculture to agricultural experiment stations are included within obligations to universities and colleges.
- Defense Agencies within the Department of Defense include the Defense Advanced Research Projects Agency, the Defense Nuclear Agency, the Defense Communications Agency, the Defense Mapping Agency, the Defense Logistics Agency, the Uniformed Services University of the Health Sciences, and technical support, Office of the Joint Chiefs of Staff.
- R&D data reported by the National Aeronautics and Space Administration are in terms of budget plan rather than obligations.
- Within the Department of Agriculture the Agricultural Cooperative Service and the Economics and Statistics Service replace the former Economics, Statistics, and Cooperatives Service.
- The historical tables for Volume XXX, providing data on R&D totals for 1972 through 1981 (C-108 through C-121), are not comparable with totals for those years in appendix tables issued to accompany earlier *Federal Funds* reports. The Department of Defense has made revisions in prior-year data, thus changing totals in all categories.

NOTE: For trend comparisons, use only these tables, appendix C, for Volume XXX. Do not use earlier tables.

TABLE C-1. SUMMARY OF FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT: FISCAL YEARS 1980, 1981, AND 1982

(MILLIONS OF DOLLARS)

ITEM	ACTUAL, 1980	ESTIMATES			
		1981	% CHG 1980-1981	1982	% CHG 1981-1982
TOTAL OUTLAYS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT	31,881.7	35,276.6	10.6%	39,762.3	12.7%
RESEARCH AND DEVELOPMENT	30,400.1	33,667.8	10.7	38,277.4	13.7
R&D PLANT	1,481.7	1,608.8	8.6	1,484.9	-7.7
TOTAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT	33,236.1	37,026.0	11.4	42,016.7	13.5
RESEARCH AND DEVELOPMENT	31,680.4	35,360.5	11.6	40,602.0	14.8
PERFORMERS:					
FEDERAL INTRAMURAL 1/	7,929.4	9,017.9	13.7	9,995.8	10.8
INDUSTRIAL FIRMS	14,422.0	16,528.5	14.6	20,350.9	23.1
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	1,408.1	1,452.4	3.2	1,536.3	5.8
UNIVERSITIES AND COLLEGES	4,276.9	4,516.0	5.6	4,777.7	5.8
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	1,591.6	1,725.6	8.4	1,882.7	9.1
OTHER NONPROFIT INSTITUTIONS	1,133.9	1,102.4	-2.8	1,093.0	-.9
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	441.8	522.3	18.2	445.2	-14.8
STATE AND LOCAL GOVERNMENTS	265.5	261.8	-1.4	222.5	-15.0
FOREIGN	211.2	233.5	10.6	298.0	27.6
RESEARCH	11,597.4	12,359.3	6.6	13,533.8	9.5
PERFORMERS:					
FEDERAL INTRAMURAL 1/	3,666.3	3,881.8	5.9	4,194.9	8.1
INDUSTRIAL FIRMS	2,077.6	2,243.1	8.0	2,627.6	17.1
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	311.0	348.1	11.9	403.8	16.0
UNIVERSITIES AND COLLEGES	3,697.1	3,941.2	6.5	4,180.2	6.1
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	851.2	932.1	9.5	1,095.2	17.5
OTHER NONPROFIT INSTITUTIONS	678.5	685.7	1.1	711.2	3.7
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	71.7	68.0	-5.1	63.1	-7.3
STATE AND LOCAL GOVERNMENTS	150.9	150.4	-.3	142.5	-5.3
FOREIGN	91.1	108.9	19.5	115.3	5.8
FIELDS OF SCIENCE:					
LIFE SCIENCES	4,192.3	4,436.0	5.8	4,714.4	6.3
PSYCHOLOGY	199.0	206.0	3.5	228.2	10.8
PHYSICAL SCIENCES	2,000.6	2,233.8	11.7	2,644.1	18.4
ENVIRONMENTAL SCIENCES	1,261.0	1,275.7	1.2	1,377.0	7.9
MATHEMATICS AND COMPUTER SCIENCES	240.9	284.1	17.9	321.8	13.3
ENGINEERING	2,830.1	3,027.1	7.0	3,375.8	11.5
SOCIAL SCIENCES	523.8	517.3	-1.2	485.2	-6.2
OTHER SCIENCES, NEC	349.6	379.4	8.5	387.3	2.1
BASIC RESEARCH	4,688.2	5,036.7	7.4	5,551.0	10.2
PERFORMERS:					
FEDERAL INTRAMURAL 1/	1,193.3	1,289.2	8.0	1,424.2	10.5
INDUSTRIAL FIRMS	326.2	305.5	-6.3	353.6	15.7
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	70.4	80.9	15.0	93.9	16.1
UNIVERSITIES AND COLLEGES	2,322.2	2,524.1	8.7	2,760.9	9.4
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	436.8	488.3	11.8	550.4	12.7
OTHER NONPROFIT INSTITUTIONS	279.8	284.5	1.7	304.7	7.1
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	7.5	7.7	2.4	7.6	-.5
STATE AND LOCAL GOVERNMENTS	23.9	24.8	3.9	27.5	10.7
FOREIGN	28.1	31.7	12.7	28.2	-10.9
FIELDS OF SCIENCE:					
LIFE SCIENCES	2,054.4	2,203.9	7.3	2,407.1	9.2
PSYCHOLOGY	84.2	87.4	3.8	98.3	12.5
PHYSICAL SCIENCES	1,221.7	1,314.4	7.6	1,481.3	12.7
ENVIRONMENTAL SCIENCES	534.2	560.3	4.9	615.9	9.9
MATHEMATICS AND COMPUTER SCIENCES	116.9	138.6	18.5	162.7	17.4
ENGINEERING	465.6	520.0	11.7	611.8	17.7
SOCIAL SCIENCES	147.2	144.5	-1.8	125.1	-13.4
OTHER SCIENCES, NEC	63.9	67.5	5.7	48.7	-27.9
APPLIED RESEARCH	6,909.2	7,322.6	6.0	7,982.9	9.0
PERFORMERS:					
FEDERAL INTRAMURAL 1/	2,472.9	2,592.6	4.8	2,770.7	6.9
INDUSTRIAL FIRMS	1,751.4	1,937.5	10.6	2,274.0	17.4
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	240.7	267.2	11.0	309.9	16.0
UNIVERSITIES AND COLLEGES	1,376.8	1,417.1	2.9	1,419.3	.2
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	414.3	443.8	7.1	544.9	22.8
OTHER NONPROFIT INSTITUTIONS	398.7	401.2	.6	406.5	1.3
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	64.2	60.3	-6.0	55.4	-8.2
STATE AND LOCAL GOVERNMENTS	127.1	125.6	-1.1	115.0	-8.4
FOREIGN	63.1	77.2	22.5	87.1	12.7
FIELDS OF SCIENCE:					
LIFE SCIENCES	2,137.9	2,232.1	4.4	2,307.3	3.4
PSYCHOLOGY	114.8	118.6	3.3	129.9	9.6
PHYSICAL SCIENCES	779.0	919.4	18.0	1,162.8	26.5
ENVIRONMENTAL SCIENCES	726.8	715.4	-1.6	761.1	6.4
MATHEMATICS AND COMPUTER SCIENCES	124.0	145.5	17.3	159.1	9.3
ENGINEERING	2,364.5	2,507.1	6.0	2,764.0	10.2
SOCIAL SCIENCES	376.6	372.9	-1.0	360.2	-3.4
OTHER SCIENCES, NEC	285.7	311.8	9.2	338.6	8.6

CONTINUED ON NEXT PAGE

TABLE C-1. SUMMARY OF FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT: FISCAL YEARS 1980, 1981, AND 1982

(MILLIONS OF DOLLARS)

- CONTINUED

ITEM	ACTUAL, 1980	ESTIMATES 1981	% CHG 1980-1981	1982	% CHG 1981-1982
DEVELOPMENT	20,083.0	23,001.2	14.5%	27,068.2	17.7%
PERFORMERS:					
FEDERAL INTRAMURAL 1/	4,263.1	5,136.1	20.5	5,800.9	12.9
INDUSTRIAL FIRMS	12,344.4	14,285.5	15.7	17,723.2	24.1
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	1,097.0	1,104.4	.7	1,132.5	2.5
UNIVERSITIES AND COLLEGES	577.9	574.8	-.5	597.5	4.0
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	740.4	793.4	7.2	787.4	-.8
OTHER NONPROFIT INSTITUTIONS	455.4	416.8	-8.5	381.8	-8.4
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	370.1	454.3	22.7	382.1	-15.9
STATE AND LOCAL GOVERNMENTS	114.6	111.4	-2.8	79.9	-28.2
FOREIGN	120.1	124.6	3.8	182.7	46.6
R&D PLANT	1,555.7	1,665.6	7.1	1,414.7	-15.1
PERFORMERS SUPPORTED:					
FEDERAL INTRAMURAL	491.1	439.4	-10.5	493.5	12.3
INDUSTRIAL FIRMS	304.0	430.7	41.6	185.4	-57.0
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	256.0	293.2	14.5	271.8	-7.3
UNIVERSITIES AND COLLEGES	40.3	30.0	-25.5	32.9	9.6
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	426.3	394.2	-7.5	418.2	6.1
OTHER NONPROFIT INSTITUTIONS	8.6	4.7	-45.0	3.9	-16.9
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	24.6	18.4	-25.2	4.7	-74.7
STATE AND LOCAL GOVERNMENTS	.8	.0	-100.0	.0	N/A
FOREIGN	3.9	54.9	1318.6	4.4	-92.1

1/ COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS ARE COVERED AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-2. FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1980, 1981, AND 1982

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1980	ESTIMATES		1980	ESTIMATES	
		1981	1982		1981	1982
TOTAL, ALL AGENCIES	33,236.1	37,026.0	42,016.7	31,881.7	35,276.6	39,762.3
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	744.5	796.9	889.2	687.6	799.4	875.9
AGRICULTURAL COOPERATIVE SERVICE	1.6	2.5	2.5	1.6	2.5	2.5
AGRICULTURAL MARKETING SERVICE	1.3	1.4	1.4	1.3	1.4	1.4
ECONOMICS & STATISTICS SERVICE	31.1	36.6	39.0	31.1	36.6	39.0
FOREST SERVICE	115.2	125.4	135.8	100.6	113.4	135.5
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	5.3	5.9	6.7	6.4	6.5	6.7
OFFICE OF TRANSPORTATION	.8	.8	1.1	.8	.8	1.1
SCIENCE & EDUCATION ADMINISTRATION	589.3	624.3	702.7	545.8	638.1	689.8
AGRICULTURAL RESEARCH	405.0	423.4	468.5	371.6	437.0	461.2
AGRICULTURAL COOPERATIVE RESEARCH	184.2	200.9	234.2	174.2	201.2	228.6
DEPARTMENT OF COMMERCE, TOTAL	347.2	337.7	297.6	360.6	360.2	332.2
BUREAU OF THE CENSUS	3.2	3.6	3.8	3.2	3.6	3.7
ECONOMIC DEVELOPMENT ADMINISTRATION	32.3	24.2	-	35.5	29.2	7.8
MARITIME ADMINISTRATION	19.9	15.8	14.3	24.1	17.8	15.9
NATIONAL BUREAU OF STANDARDS	76.4	83.6	103.0	77.1	83.4	99.1
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	203.6	198.1	165.4	210.6	215.0	195.3
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	10.7	11.2	10.4	9.1	9.9	9.7
OFFICE OF THE SECRETARY	.6	.1	-	.6	.3	.2
PATENT AND TRADEMARK OFFICE	.5	1.1	.6	.5	1.1	.6
DEPARTMENT OF DEFENSE, TOTAL	14,189.2	17,099.7	21,801.0	13,706.1	15,845.3	19,878.7
DEPARTMENT OF THE ARMY	2,993.8	3,306.1	4,046.5	2,852.9	3,145.1	3,722.3
MILITARY FUNCTIONS	2,964.0	3,276.0	4,013.4	2,823.1	3,115.1	3,689.3
MILITARY CONSTRUCTION	10.7	11.4	23.2	5.7	5.1	9.2
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	110.4	136.0	137.1	110.4	136.0	137.1
RDT&E APPROPRIATION	2,842.9	3,128.6	3,853.2	2,707.0	2,974.0	3,543.0
CIVIL FUNCTIONS (CORPS OF ENGINEERS)	29.8	30.0	33.1	29.8	30.0	33.1
DEPARTMENT OF THE NAVY	4,789.3	5,161.9	6,178.2	4,507.9	5,082.7	5,639.1
MILITARY CONSTRUCTION	19.2	24.1	28.8	27.9	12.2	14.1
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	95.9	117.7	125.5	95.9	117.7	125.5
RDT&E APPROPRIATION	4,666.4	5,011.6	6,021.0	4,381.5	4,950.0	5,493.0
SPECIAL FOREIGN CURRENCY PROGRAM	7.8	8.5	2.9	2.6	2.8	6.5
DEPARTMENT OF THE AIR FORCE	5,319.0	7,312.5	9,668.5	5,323.6	6,393.5	8,372.2
MILITARY CONSTRUCTION	46.0	52.0	60.0	46.0	46.0	48.0
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	261.0	335.5	349.2	261.0	335.5	349.2
RDT&E APPROPRIATION	5,012.0	6,925.0	9,259.3	5,016.6	6,012.0	8,475.0
DEFENSE AGENCIES	1,049.2	1,282.3	1,858.7	981.4	1,185.0	1,601.0
MILITARY CONSTRUCTION	-	-	.5	-	-	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	37.9	37.0	49.0	40.4	39.0	44.0
DEPARTMENT OF EDUCATION, TOTAL	139.4	137.2	95.9	120.9	134.2	101.6
DEPARTMENT OF ENERGY	5,777.8	6,111.0	5,547.7	5,660.2	6,104.5	5,315.1
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	3,810.8	3,946.9	4,220.8	3,554.1	3,717.4	3,947.0
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	233.5	239.1	261.4	218.1	218.4	215.8
CENTERS FOR DISEASE CONTROL	87.3	80.8	77.1	72.6	79.1	73.2
FOOD & DRUG ADMINISTRATION	76.6	77.9	110.4	61.0	61.9	64.9
HEALTH CARE FINANCING ADMINISTRATION	45.7	46.0	46.0	29.4	45.7	46.0
HEALTH RESOURCES ADMINISTRATION	5.1	5.2	-	2.8	3.7	3.9
HEALTH SERVICES ADMINISTRATION	26.7	13.0	1.1	20.2	13.5	1.1
NATIONAL INSTITUTES OF HEALTH	3,211.2	3,362.1	3,586.6	3,029.3	3,178.7	3,431.4
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	29.9	35.7	21.5	27.0	27.3	24.3
OFFICE OF HUMAN DEVELOPMENT SERVICES	49.3	44.8	71.7	48.5	46.8	46.3
OFFICE OF THE SECRETARY	24.0	22.0	16.7	24.0	22.0	16.7
SOCIAL SECURITY ADMINISTRATION	21.4	20.2	28.3	21.4	20.2	23.2
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	56.0	51.3	51.4	65.8	58.1	46.4

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TABLE C-2. FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1980, 1981, AND 1982

(MILLIONS OF DOLLARS)

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AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1980	ESTIMATES		1980	ESTIMATES	
		1981	1982		1981	1982
DEPARTMENT OF THE INTERIOR, TOTAL	418.8	428.3	398.4	431.5	432.4	394.9
BUREAU OF LAND MANAGEMENT	1.7	1.9	2.0	1.7	1.9	2.0
BUREAU OF MINES	114.4	112.7	107.7	130.8	127.4	106.8
GEOLOGICAL SURVEY	146.3	164.3	175.4	145.2	153.8	171.2
NATIONAL PARK SERVICE	8.2	10.0	13.4	8.2	10.0	13.4
OFFICE OF THE SECRETARY	2.2	3.9	1.0	1.9	3.0	1.4
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	7.8	6.3	1.2	7.8	6.3	1.2
OFFICE OF WATER RESEARCH & TECHNOLOGY	30.0	20.2	-	30.0	20.2	-
UNITED STATES FISH AND WILDLIFE SERVICE	94.1	94.4	88.2	93.0	92.9	89.4
WATER AND POWER RESOURCES SERVICE	14.1	14.7	9.6	13.1	17.0	9.6
DEPARTMENT OF JUSTICE, TOTAL	41.5	34.2	26.2	45.3	41.7	34.0
DRUG ENFORCEMENT ADMINISTRATION	2.7	2.4	1.8	4.4	3.7	2.0
FEDERAL BUREAU OF INVESTIGATION	1.4	.3	1.1	1.8	1.4	.6
FEDERAL PRISON SYSTEM	2.1	3.1	3.1	2.1	3.1	2.1
IMMIGRATION AND NATURALIZATION SERVICE	.3	1.0	.5	.3	1.0	.4
OFFICE OF THE ATTORNEY GENERAL	1.8	1.5	1.3	1.6	1.0	1.0
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS	33.2	25.8	18.4	35.1	31.5	27.8
DEPARTMENT OF LABOR, TOTAL	138.1	107.6	37.1	137.7	107.2	36.9
BUREAU OF LABOR STATISTICS	.9	.8	.9	.9	.8	.9
EMPLOYMENT STANDARDS ADMINISTRATION	4.9	5.9	4.9	4.7	5.7	4.7
EMPLOYMENT AND TRAINING ADMINISTRATION	121.7	88.8	18.9	121.7	88.8	18.9
LABOR-MANAGEMENT SERVICES ADMINISTRATION	2.8	3.1	3.1	2.8	3.0	3.1
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	6.3	8.0	8.3	6.3	8.0	8.3
OFFICE OF THE SECRETARY	1.4	1.0	1.1	1.3	.9	1.0
DEPARTMENT OF STATE, TOTAL	2.2	1.9	1.8	2.2	1.9	1.8
DEPARTMENTAL FUNDS	2.2	1.9	1.8	2.2	1.9	1.8
DEPARTMENT OF TRANSPORTATION, TOTAL	384.5	415.0	421.8	391.0	393.8	380.5
COAST GUARD	18.0	25.0	30.0	17.9	25.0	30.0
FEDERAL AVIATION ADMINISTRATION	108.8	125.0	128.4	109.7	129.2	114.5
FEDERAL HIGHWAY ADMINISTRATION	58.3	56.0	56.1	53.4	53.2	51.2
FEDERAL RAILROAD ADMINISTRATION	56.4	59.5	50.4	63.5	45.1	44.9
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	63.8	67.9	72.1	60.3	62.2	65.7
OFFICE OF THE SECRETARY	10.8	10.7	10.7	14.9	14.0	10.9
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	14.0	14.9	16.4	12.4	12.6	12.5
URBAN MASS TRANSPORTATION ADMINISTRATION	54.4	56.0	57.8	58.9	52.5	50.8
DEPARTMENT OF THE TREASURY, TOTAL	12.1	13.3	14.0	10.9	13.1	14.1
BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS	1.6	.3	-	1.6	.3	-
BUREAU OF ENGRAVING AND PRINTING	2.3	4.5	4.7	2.3	4.5	4.7
CUSTOMS SERVICE	3.9	3.7	3.4	3.0	3.3	3.3
INTERNAL REVENUE SERVICE	4.0	4.7	5.8	4.0	4.7	5.8
OFFICE OF PROTECTIVE RESEARCH	.4	.1	.2	*	.3	.3
OTHER AGENCIES						
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	2.2	1.8	2.0	1.7	2.1	2.0
APPALACHIAN REGIONAL COMMISSION	.8	.4	.4	.8	.4	.4
COMMUNITY SERVICES ADMINISTRATION	30.3	14.6	-	25.5	22.5	7.3
CONSUMER PRODUCT SAFETY COMMISSION	6.2	6.9	5.4	6.3	6.8	5.6
ENVIRONMENTAL PROTECTION AGENCY	345.0	363.1	302.6	384.7	343.7	327.2
FEDERAL COMMUNICATIONS COMMISSION	3.4	2.7	1.9	3.1	2.8	2.0
FEDERAL EMERGENCY MANAGEMENT AGENCY	11.8	15.1	17.9	11.2	14.3	17.0
FEDERAL HOME LOAN BANK BOARD	1.2	1.2	1.3	1.2	1.2	1.3
FEDERAL TRADE COMMISSION	3.0	4.2	4.4	3.2	4.4	1.8
GENERAL SERVICES ADMINISTRATION	.2	.4	.1	.2	.4	.1
INTERNATIONAL COMMUNICATION AGENCY	.1	.3	.2	.1	.2	.2
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	155.6	135.6	158.7	114.3	168.3	163.1
AGENCY FOR INTERNATIONAL DEVELOPMENT	155.6	135.6	158.7	114.3	168.3	163.1
INTERSTATE COMMERCE COMMISSION	.1	.2	.2	.1	.2	.2
LIBRARY OF CONGRESS	6.9	6.2	6.6	6.5	7.2	6.6
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	5,243.2	5,522.7	6,122.2	4,851.6	5,274.0	5,395.2
NATIONAL SCIENCE FOUNDATION	900.5	951.8	1,019.7	848.2	909.1	920.1
NUCLEAR REGULATORY COMMISSION	190.4	216.2	231.9	182.8	207.5	222.7
OFFICE OF PERSONNEL MANAGEMENT	6.8	8.5	5.0	6.8	8.5	5.0
SMITHSONIAN INSTITUTION	41.9	45.9	51.4	39.5	43.9	48.7
TENNESSEE VALLEY AUTHORITY	80.7	91.4	96.4	75.3	98.7	112.4
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	3.8	1.5	2.2	3.8	1.5	2.2
UNITED STATES INTERNATIONAL TRADE COMMISSION	2.1	3.0	3.9	2.1	3.0	3.9
VETERANS ADMINISTRATION	137.8	151.7	179.6	138.6	146.9	158.3

* INDICATES AMOUNT LESS THAN $50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-3. FEDERAL FUNDS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1980, 1981, AND 1982

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1980	ESTIMATES		1980	ESTIMATES	
		1981	1982		1981	1982
TOTAL, ALL AGENCIES	31,680.4	35,360.5	40,602.0	30,400.1	33,667.8	38,277.4
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	687.6	770.3	860.0	659.8	748.6	844.3
AGRICULTURAL COOPERATIVE SERVICE	1.6	2.5	2.5	1.6	2.5	2.5
AGRICULTURAL MARKETING SERVICE	1.3	1.4	1.4	1.3	1.4	1.4
ECONOMICS & STATISTICS SERVICE	31.1	36.6	39.0	31.1	36.6	39.0
FOREST SERVICE	111.5	122.2	134.3	97.0	110.2	134.1
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	5.3	5.9	6.7	6.4	6.5	6.7
OFFICE OF TRANSPORTATION	.8	.8	1.1	.8	.8	1.1
SCIENCE & EDUCATION ADMINISTRATION	536.0	600.9	675.1	521.7	590.6	659.5
AGRICULTURAL RESEARCH	351.8	400.0	440.9	347.5	389.4	430.9
AGRICULTURAL COOPERATIVE RESEARCH	184.2	200.9	234.2	174.2	201.2	228.6
DEPARTMENT OF COMMERCE, TOTAL	342.5	336.8	288.0	355.9	358.9	326.3
BUREAU OF THE CENSUS	3.2	3.6	3.8	3.2	3.6	3.7
ECONOMIC DEVELOPMENT ADMINISTRATION	32.3	24.2	-	35.5	29.2	7.8
MARITIME ADMINISTRATION	19.4	15.8	14.3	23.5	17.4	15.9
NATIONAL BUREAU OF STANDARDS	76.2	83.0	93.5	76.8	82.8	93.2
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	199.8	197.8	165.4	206.7	214.7	195.3
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	10.7	11.2	10.4	9.1	9.9	9.7
OFFICE OF THE SECRETARY	.6	.1	-	.6	.3	.2
PATENT AND TRADEMARK OFFICE	.5	1.1	.6	.5	1.1	.6
DEPARTMENT OF DEFENSE, TOTAL	13,981.0	16,864.1	21,523.2	13,501.4	15,635.3	19,649.9
DEPARTMENT OF THE ARMY	2,980.0	3,291.0	4,020.3	2,845.3	3,138.2	3,712.2
MILITARY FUNCTIONS	2,950.2	3,260.9	3,987.2	2,815.5	3,108.2	3,679.2
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	110.4	136.0	137.1	110.4	136.0	137.1
RDT&E APPROPRIATION	2,839.8	3,124.9	3,850.2	2,705.1	2,972.2	3,542.1
CIVIL FUNCTIONS (CORPS OF ENGINEERS)	29.8	30.0	33.1	29.8	30.0	33.1
DEPARTMENT OF THE NAVY	4,706.1	5,061.8	6,057.6	4,417.0	4,995.5	5,534.2
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	95.9	117.7	125.5	95.9	117.7	125.5
RDT&E APPROPRIATION	4,602.4	4,935.6	5,929.2	4,318.5	4,875.0	5,402.2
SPECIAL FOREIGN CURRENCY PROGRAM	7.8	8.5	2.9	2.6	2.8	6.5
DEPARTMENT OF THE AIR FORCE	5,211.0	7,196.0	9,542.4	5,220.6	6,281.5	8,763.2
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	261.0	335.5	349.2	261.0	335.5	349.2
RDT&E APPROPRIATION	4,950.0	6,860.5	9,193.2	4,959.6	5,946.0	8,414.0
DEFENSE AGENCIES	1,046.0	1,278.4	1,853.8	978.2	1,181.1	1,596.1
DIRECTOR OF TEST & EVALUATION, DEFENSE	37.9	37.0	49.0	40.4	39.0	44.0
DEPARTMENT OF EDUCATION, TOTAL	139.4	137.2	95.9	120.9	134.2	101.6
DEPARTMENT OF ENERGY	4,753.7	4,926.7	4,690.2	4,697.5	5,011.5	4,858.0
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	3,780.2	3,904.8	4,168.6	3,477.2	3,676.7	3,903.9
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	233.5	233.7	260.0	217.9	217.4	214.5
CENTERS FOR DISEASE CONTROL	87.3	80.8	77.1	72.6	79.1	73.2
FOOD & DRUG ADMINISTRATION	75.4	74.9	75.4	60.3	59.9	60.3
HEALTH CARE FINANCING ADMINISTRATION	45.7	46.0	46.0	29.4	45.7	46.0
HEALTH RESOURCES ADMINISTRATION	5.1	5.2	-	2.8	3.7	3.8
HEALTH SERVICES ADMINISTRATION	26.7	13.0	1.1	20.2	13.5	1.1
NATIONAL INSTITUTES OF HEALTH	3,181.8	3,328.3	3,570.8	2,953.2	3,140.9	3,394.0
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	29.9	35.7	21.5	27.0	27.3	24.8
OFFICE OF HUMAN DEVELOPMENT SERVICES	49.3	44.8	71.7	48.5	46.8	46.3
OFFICE OF THE SECRETARY	24.0	22.0	16.7	24.0	22.0	16.7
SOCIAL SECURITY ADMINISTRATION	21.4	20.2	28.3	21.4	20.2	23.2
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	56.0	51.3	51.4	65.8	58.1	46.4

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TABLE C-3. FEDERAL FUNDS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1980, 1981, AND 1982

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1980	ESTIMATES		1980	ESTIMATES	
		1981	1982		1981	1982
DEPARTMENT OF THE INTERIOR, TOTAL	411.3	422.9	397.8	422.7	428.6	394.2
BUREAU OF LAND MANAGEMENT	1.7	1.9	2.0	1.7	1.9	2.0
BUREAU OF MINES	113.4	110.7	107.7	128.4	126.8	106.8
GEOLOGICAL SURVEY	146.3	164.3	175.4	145.2	153.8	171.2
NATIONAL PARK SERVICE	8.2	10.0	13.4	8.2	10.0	13.4
OFFICE OF THE SECRETARY	2.2	3.9	1.0	1.9	3.0	1.4
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	7.5	6.3	1.2	7.5	6.3	1.2
OFFICE OF WATER RESEARCH & TECHNOLOGY	29.3	19.1	-	29.3	19.1	-
UNITED STATES FISH AND WILDLIFE SERVICE	88.6	92.1	87.6	87.7	90.8	88.7
WATER AND POWER RESOURCES SERVICE	14.1	14.7	9.6	13.1	17.0	9.6
DEPARTMENT OF JUSTICE, TOTAL	41.5	34.2	26.2	45.3	41.7	34.0
DRUG ENFORCEMENT ADMINISTRATION	2.7	2.4	1.8	4.4	3.7	2.0
FEDERAL BUREAU OF INVESTIGATION	1.4	.3	1.1	1.8	1.4	.5
FEDERAL PRISON SYSTEM	2.1	3.1	3.1	2.1	3.1	2.1
IMMIGRATION AND NATURALIZATION SERVICE	.3	1.0	.5	.3	1.0	.4
OFFICE OF THE ATTORNEY GENERAL	1.8	1.5	1.3	1.6	1.0	1.0
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS	33.2	25.8	18.4	35.1	31.5	27.8
DEPARTMENT OF LABOR, TOTAL	138.1	107.6	37.1	137.7	107.2	36.8
BUREAU OF LABOR STATISTICS	.9	.8	.9	.9	.8	.9
EMPLOYMENT STANDARDS ADMINISTRATION	4.9	5.9	4.9	4.7	5.7	4.7
EMPLOYMENT AND TRAINING ADMINISTRATION	121.7	88.8	18.9	121.7	88.8	18.9
LABOR-MANAGEMENT SERVICES ADMINISTRATION	2.8	3.1	3.1	2.8	3.0	3.1
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	6.3	8.0	8.3	6.3	8.0	8.3
OFFICE OF THE SECRETARY	1.4	1.0	1.1	1.3	.9	1.0
DEPARTMENT OF STATE, TOTAL	2.2	1.9	1.8	2.2	1.9	1.8
DEPARTMENTAL FUNDS	2.2	1.9	1.8	2.2	1.9	1.8
DEPARTMENT OF TRANSPORTATION, TOTAL	361.2	399.4	404.0	374.7	378.6	361.3
COAST GUARD	18.0	25.0	30.0	17.9	25.0	30.0
FEDERAL AVIATION ADMINISTRATION	103.1	120.1	120.9	104.2	121.5	107.4
FEDERAL HIGHWAY ADMINISTRATION	51.1	55.8	55.8	53.1	53.1	51.1
FEDERAL RAILROAD ADMINISTRATION	46.2	49.5	41.0	53.2	38.2	33.6
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	63.6	67.4	71.5	60.1	61.7	65.1
OFFICE OF THE SECRETARY	10.8	10.7	10.7	14.9	14.0	10.8
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	14.0	14.9	16.4	12.4	12.6	12.5
URBAN MASS TRANSPORTATION ADMINISTRATION	54.4	56.0	57.8	58.9	52.5	50.8
DEPARTMENT OF THE TREASURY, TOTAL	12.0	13.2	14.0	10.9	13.0	14.0
BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS	1.6	.3	-	1.6	.3	-
BUREAU OF ENGRAVING AND PRINTING	2.3	4.5	4.7	2.3	4.5	4.7
CUSTOMS SERVICE	3.8	3.6	3.3	3.0	3.2	3.2
INTERNAL REVENUE SERVICE	4.0	4.7	5.8	4.0	4.7	5.8
OFFICE OF PROTECTIVE RESEARCH	.4	.1	.2	*	.3	.3
OTHER AGENCIES						
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	2.2	1.8	2.0	1.7	2.1	2.0
APPALACHIAN REGIONAL COMMISSION	.8	.4	.4	.8	.4	.4
COMMUNITY SERVICES ADMINISTRATION	30.3	14.6	-	25.5	22.5	7.3
CONSUMER PRODUCT SAFETY COMMISSION	3.5	4.2	3.3	3.6	4.1	3.5
ENVIRONMENTAL PROTECTION AGENCY	345.0	363.1	302.6	384.7	343.7	327.2
FEDERAL COMMUNICATIONS COMMISSION	3.4	2.7	1.9	3.1	2.8	2.0
FEDERAL EMERGENCY MANAGEMENT AGENCY	11.8	15.1	17.9	11.2	14.3	17.0
FEDERAL HOME LOAN BANK BOARD	1.2	1.2	1.3	1.2	1.2	1.3
FEDERAL TRADE COMMISSION	3.0	4.2	4.4	3.2	4.4	1.8
GENERAL SERVICES ADMINISTRATION	.2	.4	.1	.2	.4	.1
INTERNATIONAL COMMUNICATION AGENCY	.1	.3	.2	.1	.2	.2
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	149.3	127.9	151.2	107.8	161.5	155.4
AGENCY FOR INTERNATIONAL DEVELOPMENT	149.3	127.9	151.2	107.8	161.5	155.4
INTERSTATE COMMERCE COMMISSION	.1	.2	.2	.1	.2	.2
LIBRARY OF CONGRESS	6.9	6.2	6.6	6.5	7.2	6.6
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	5,084.1	5,407.7	6,017.4	4,711.3	5,117.6	5,741.7
NATIONAL SCIENCE FOUNDATION	881.8	937.4	999.9	830.6	896.3	903.8
NUCLEAR REGULATORY COMMISSION	182.7	207.7	224.5	175.4	199.4	215.6
OFFICE OF PERSONNEL MANAGEMENT	6.8	8.5	5.0	6.8	8.5	5.0
SMITHSONIAN INSTITUTION	41.0	45.2	50.5	39.1	43.1	48.0
TENNESSEE VALLEY AUTHORITY	80.1	91.1	95.5	74.7	98.4	111.5
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	3.8	1.5	2.2	3.8	1.5	2.2
UNITED STATES INTERNATIONAL TRADE COMMISSION	2.1	3.0	3.9	2.1	3.0	3.9
VETERANS ADMINISTRATION	133.4	145.9	152.9	134.4	140.8	148.3

* INDICATES AMOUNT LESS THAN $50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-4. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
TOTAL, ALL AGENCIES	31,680,398	4,688,153	6,909,225	20,083,020
DEPARTMENTS				
DEPARTMENT OF AGRICULTURE, TOTAL	687,586	275,650	381,785	30,151
AGRICULTURAL COOPERATIVE SERVICE	1,634	-	1,634	-
AGRICULTURAL MARKETING SERVICE	1,277	-	1,000	277
ECONOMICS & STATISTICS SERVICE	31,051	6,592	24,459	-
FOREST SERVICE	111,531	33,727	72,328	5,476
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	5,310	2,336	2,603	371
OFFICE OF TRANSPORTATION	767	-	-	767
SCIENCE & EDUCATION ADMINISTRATION	536,016	232,995	279,761	23,260
AGRICULTURAL RESEARCH	351,811	157,773	170,778	23,260
AGRICULTURAL COOPERATIVE RESEARCH	184,205	75,222	108,983	-
DEPARTMENT OF COMMERCE, TOTAL	342,549	29,907	224,526	88,116
BUREAU OF THE CENSUS	3,188	543	1,405	1,240
ECONOMIC DEVELOPMENT ADMINISTRATION	32,300	300	2,200	29,800
MARITIME ADMINISTRATION	19,436	2,000	10,136	7,300
NATIONAL BUREAU OF STANDARDS	76,167	12,784	46,109	17,274
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	199,750	13,997	154,813	30,940
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	10,694	-	9,625	1,069
OFFICE OF THE SECRETARY	554	283	238	33
PATENT AND TRADEMARK OFFICE	460	-	-	460
DEPARTMENT OF DEFENSE, TOTAL	13,981,012	540,341	1,721,428	11,719,243
DEPARTMENT OF THE ARMY	2,979,987	132,190	347,065	2,500,732
DEPARTMENT OF THE NAVY	4,706,132	214,900	396,200	4,095,032
DEPARTMENT OF THE AIR FORCE	5,211,029	108,200	429,100	4,673,729
DEFENSE AGENCIES	1,045,984	85,051	549,063	411,870
DIRECTOR OF TEST & EVALUATION, DEFENSE	37,880	-	-	37,880
DEPARTMENT OF EDUCATION, TOTAL	139,372	17,583	69,992	51,797
DEPARTMENT OF ENERGY	4,753,688	523,136	754,190	3,476,362
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	3,780,221	1,762,668	1,570,109	447,444
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	233,536	104,736	128,800	-
CENTERS FOR DISEASE CONTROL	87,257	-	87,257	-
FOOD & DRUG ADMINISTRATION	75,400	-	75,400	-
HEALTH CARE FINANCING ADMINISTRATION	45,727	-	45,727	-
HEALTH RESOURCES ADMINISTRATION	5,140	-	5,140	-
HEALTH SERVICES ADMINISTRATION	26,726	2,032	5,991	18,703
NATIONAL INSTITUTES OF HEALTH	3,181,830	1,642,341	1,145,129	394,360
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	29,949	11,560	14,146	4,243
OFFICE OF HUMAN DEVELOPMENT SERVICES	49,269	-	19,131	30,138
OFFICE OF THE SECRETARY	24,000	1,999	22,001	-
SOCIAL SECURITY ADMINISTRATION	21,387	-	21,387	-
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	56,025	-	19,601	36,424
DEPARTMENT OF THE INTERIOR, TOTAL	411,258	71,634	282,812	56,812
BUREAU OF LAND MANAGEMENT	1,654	-	1,323	331
BUREAU OF MINES	113,373	11,500	71,300	30,573
GEOLOGICAL SURVEY	146,339	47,319	98,520	500
NATIONAL PARK SERVICE	8,243	-	8,243	-
OFFICE OF THE SECRETARY	2,233	2,233	-	-
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	7,471	-	7,471	-
OFFICE OF WATER RESEARCH & TECHNOLOGY	29,258	6,600	11,800	10,858
UNITED STATES FISH AND WILDLIFE SERVICE	88,576	3,782	71,444	13,350
WATER AND POWER RESOURCES SERVICE	14,111	200	12,711	1,200
DEPARTMENT OF JUSTICE, TOTAL	41,501	9,525	19,235	12,741
DRUG ENFORCEMENT ADMINISTRATION	2,700	-	800	1,900
FEDERAL BUREAU OF INVESTIGATION	1,442	-	-	1,442
FEDERAL PRISON SYSTEM	2,107	-	857	1,250
IMMIGRATION AND NATURALIZATION SERVICE	302	-	151	151
OFFICE OF THE ATTORNEY GENERAL	1,800	-	1,320	480
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS	33,150	9,525	16,107	7,518
DEPARTMENT OF LABOR, TOTAL	138,053	3,876	32,556	101,621
BUREAU OF LABOR STATISTICS	925	-	925	-
EMPLOYMENT STANDARDS ADMINISTRATION	4,900	-	4,900	-
EMPLOYMENT AND TRAINING ADMINISTRATION	121,745	3,876	16,248	101,621
LABOR-MANAGEMENT SERVICES ADMINISTRATION	2,819	-	2,819	-
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	6,300	-	6,300	-
OFFICE OF THE SECRETARY	1,364	-	1,364	-
DEPARTMENT OF STATE, TOTAL	2,206	-	1,956	250
DEPARTMENTAL FUNDS	2,206	-	1,956	250

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TABLE C-4. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
DEPARTMENT OF TRANSPORTATION, TOTAL	361,230	-	82,445	278,785
COAST GUARD	18,000	-	8,100	9,900
FEDERAL AVIATION ADMINISTRATION	103,100	-	8,200	94,900
FEDERAL HIGHWAY ADMINISTRATION	51,100	-	4,600	46,500
FEDERAL RAILROAD ADMINISTRATION	46,200	-	7,900	38,300
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	63,554	-	38,615	24,939
OFFICE OF THE SECRETARY	10,844	-	640	10,204
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	14,049	-	5,500	8,549
URBAN MASS TRANSPORTATION ADMINISTRATION	54,383	-	8,890	45,493
DEPARTMENT OF THE TREASURY, TOTAL	12,033	1,731	3,956	6,346
BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS	1,550	-	346	1,204
BUREAU OF ENGRAVING AND PRINTING	2,300	-	1,300	1,000
CUSTOMS SERVICE	3,823	-	100	3,723
INTERNAL REVENUE SERVICE	4,000	1,731	2,210	59
OFFICE OF PROTECTIVE RESEARCH	360	-	-	360
OTHER AGENCIES				
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	2,219	-	2,219	-
APPALACHIAN REGIONAL COMMISSION	800	-	600	200
COMMUNITY SERVICES ADMINISTRATION	30,349	-	1,250	29,099
CONSUMER PRODUCT SAFETY COMMISSION	3,500	-	1,600	1,900
ENVIRONMENTAL PROTECTION AGENCY	345,000	13,600	231,500	99,900
FEDERAL COMMUNICATIONS COMMISSION	3,420	-	3,420	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	11,841	2,642	6,688	2,511
FEDERAL HOME LOAN BANK BOARD	1,227	-	1,227	-
FEDERAL TRADE COMMISSION	3,021	1,495	1,526	-
GENERAL SERVICES ADMINISTRATION	159	-	105	54
INTERNATIONAL COMMUNICATION AGENCY	88	-	83	5
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	149,322	-	79,664	69,658
AGENCY FOR INTERNATIONAL DEVELOPMENT	149,322	-	79,664	69,658
INTERSTATE COMMERCE COMMISSION	143	-	143	-
LIBRARY OF CONGRESS	6,900	100	500	6,300
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	5,084,054	559,113	1,050,531	3,474,410
NATIONAL SCIENCE FOUNDATION	881,792	815,246	58,441	8,105
NUCLEAR REGULATORY COMMISSION	182,672	-	182,672	-
OFFICE OF PERSONNEL MANAGEMENT	6,788	-	2,601	4,187
SMITHSONIAN INSTITUTION	41,006	41,006	-	-
TENNESSEE VALLEY AUTHORITY	80,100	4,600	11,200	64,300
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	3,795	-	2,996	799
UNITED STATES INTERNATIONAL TRADE COMMISSION	2,068	-	2,068	-
VETERANS ADMINISTRATION	133,400	14,300	103,600	15,500

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-5. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
TOTAL, ALL AGENCIES	35,360,469	5,036,672	7,322,622	23,001,175
DEPARTMENTS				
DEPARTMENT OF AGRICULTURE, TOTAL	770,295	319,260	419,434	31,601
AGRICULTURAL COOPERATIVE SERVICE	2,469	-	2,469	-
AGRICULTURAL MARKETING SERVICE	1,418	-	1,141	277
ECONOMICS & STATISTICS SERVICE	36,585	8,598	27,987	-
FOREST SERVICE	122,200	36,900	79,300	6,000
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	5,850	2,574	2,808	468
OFFICE OF TRANSPORTATION	844	-	-	844
SCIENCE & EDUCATION ADMINISTRATION	600,929	271,188	305,729	24,012
AGRICULTURAL RESEARCH	400,032	189,550	186,470	24,012
AGRICULTURAL COOPERATIVE RESEARCH	200,897	81,638	119,259	-
DEPARTMENT OF COMMERCE, TOTAL	336,809	32,210	225,173	79,426
BUREAU OF THE CENSUS	3,645	624	1,680	1,341
ECONOMIC DEVELOPMENT ADMINISTRATION	24,200	200	1,600	22,400
MARITIME ADMINISTRATION	15,766	700	9,166	5,900
NATIONAL BUREAU OF STANDARDS	82,983	15,974	49,160	17,849
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	197,847	14,665	153,368	29,814
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	11,197	-	10,189	1,008
OFFICE OF THE SECRETARY	57	47	10	-
PATENT AND TRADEMARK OFFICE	1,114	-	-	1,114
DEPARTMENT OF DEFENSE, TOTAL	16,864,091	612,925	1,971,079	14,280,087
DEPARTMENT OF THE ARMY	3,290,952	143,135	370,680	2,777,137
DEPARTMENT OF THE NAVY	5,061,780	240,400	461,100	4,360,280
DEPARTMENT OF THE AIR FORCE	7,195,957	127,700	480,500	6,587,757
DEFENSE AGENCIES	1,278,433	101,690	658,799	517,944
DIRECTOR OF TEST & EVALUATION, DEFENSE	36,969	-	-	36,969
DEPARTMENT OF EDUCATION, TOTAL	137,247	17,338	69,974	49,935
DEPARTMENT OF ENERGY	4,926,728	594,696	812,748	3,519,284
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	3,904,765	1,871,632	1,598,834	434,299
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	233,677	107,846	125,831	-
CENTERS FOR DISEASE CONTROL	80,844	-	80,844	-
FOOD & DRUG ADMINISTRATION	74,900	-	74,900	-
HEALTH CARE FINANCING ADMINISTRATION	46,000	-	46,000	-
HEALTH RESOURCES ADMINISTRATION	5,155	-	5,155	-
HEALTH SERVICES ADMINISTRATION	13,020	1,650	4,479	6,891
NATIONAL INSTITUTES OF HEALTH	3,328,345	1,745,645	1,188,645	394,055
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	35,741	14,391	16,529	4,821
OFFICE OF HUMAN DEVELOPMENT SERVICES	44,835	-	16,303	28,532
OFFICE OF THE SECRETARY	22,000	2,100	19,900	-
SOCIAL SECURITY ADMINISTRATION	20,248	-	20,248	-
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	51,317	-	19,054	32,263
DEPARTMENT OF THE INTERIOR, TOTAL	422,933	77,343	287,008	58,582
BUREAU OF LAND MANAGEMENT	1,855	-	1,458	397
BUREAU OF MINES	110,685	12,400	67,100	31,185
GEOLOGICAL SURVEY	164,266	54,392	109,874	-
NATIONAL PARK SERVICE	10,025	-	10,025	-
OFFICE OF THE SECRETARY	3,928	3,928	-	-
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	6,290	-	6,290	-
OFFICE OF WATER RESEARCH & TECHNOLOGY	19,073	2,508	4,480	12,085
UNITED STATES FISH AND WILDLIFE SERVICE	92,100	3,915	74,370	13,815
WATER AND POWER RESOURCES SERVICE	14,711	200	13,411	1,100
DEPARTMENT OF JUSTICE, TOTAL	34,182	6,864	16,533	10,785
DRUG ENFORCEMENT ADMINISTRATION	2,400	-	700	1,700
FEDERAL BUREAU OF INVESTIGATION	297	-	-	297
FEDERAL PRISON SYSTEM	3,107	-	1,057	2,050
IMMIGRATION AND NATURALIZATION SERVICE	1,032	-	516	516
OFFICE OF THE ATTORNEY GENERAL	1,500	-	1,500	-
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS	25,846	6,864	12,760	6,222
DEPARTMENT OF LABOR, TOTAL	107,559	3,479	32,956	71,124
BUREAU OF LABOR STATISTICS	838	-	838	-
EMPLOYMENT STANDARDS ADMINISTRATION	5,900	-	5,900	-
EMPLOYMENT AND TRAINING ADMINISTRATION	88,754	3,479	14,151	71,124
LABOR-MANAGEMENT SERVICES ADMINISTRATION	3,055	-	3,055	-
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	8,000	-	8,000	-
OFFICE OF THE SECRETARY	1,012	-	1,012	-
DEPARTMENT OF STATE, TOTAL	1,887	-	1,727	160
DEPARTMENTAL FUNDS	1,887	-	1,727	160

CONTINUED ON NEXT PAGE

TABLE C-5. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
DEPARTMENT OF TRANSPORTATION, TOTAL	399,426	500	91,141	307,785
COAST GUARD	25,000	-	15,800	9,200
FEDERAL AVIATION ADMINISTRATION	120,100	-	9,500	110,600
FEDERAL HIGHWAY ADMINISTRATION	55,800	-	4,700	51,100
FEDERAL RAILROAD ADMINISTRATION	49,500	-	8,400	41,100
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	67,447	-	38,369	29,078
OFFICE OF THE SECRETARY	10,725	-	740	9,985
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	14,856	500	5,100	9,256
URBAN MASS TRANSPORTATION ADMINISTRATION	55,998	-	8,532	47,466
DEPARTMENT OF THE TREASURY, TOTAL	13,204	2,282	4,347	6,575
BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS	300	-	100	200
BUREAU OF ENGRAVING AND PRINTING	4,500	-	1,862	2,638
CUSTOMS SERVICE	3,600	-	100	3,500
INTERNAL REVENUE SERVICE	4,700	2,282	2,285	133
OFFICE OF PROTECTIVE RESEARCH	104	-	-	104
OTHER AGENCIES				
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1,827	-	1,827	-
APPALACHIAN REGIONAL COMMISSION	375	-	280	95
COMMUNITY SERVICES ADMINISTRATION	14,600	-	1,000	13,600
CONSUMER PRODUCT SAFETY COMMISSION	4,200	-	2,700	1,500
ENVIRONMENTAL PROTECTION AGENCY	363,100	14,200	245,700	103,200
FEDERAL COMMUNICATIONS COMMISSION	2,690	-	2,690	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	15,102	2,670	9,954	2,478
FEDERAL HOME LOAN BANK BOARD	1,150	-	1,150	-
FEDERAL TRADE COMMISSION	4,166	2,051	2,115	-
GENERAL SERVICES ADMINISTRATION	373	-	373	-
INTERNATIONAL COMMUNICATION AGENCY	261	-	220	41
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	127,888	-	87,160	40,728
AGENCY FOR INTERNATIONAL DEVELOPMENT	127,888	-	87,160	40,728
INTERSTATE COMMERCE COMMISSION	175	-	175	-
LIBRARY OF CONGRESS	6,200	100	500	5,600
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	5,407,688	540,394	1,014,172	3,853,122
NATIONAL SCIENCE FOUNDATION	937,404	873,640	59,764	4,000
NUCLEAR REGULATORY COMMISSION	207,673	-	207,673	-
OFFICE OF PERSONNEL MANAGEMENT	8,482	-	4,027	4,455
SMITHSONIAN INSTITUTION	45,188	45,188	-	-
TENNESSEE VALLEY AUTHORITY	91,100	4,900	12,900	73,300
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	1,500	-	1,050	450
UNITED STATES INTERNATIONAL TRADE COMMISSION	2,984	-	2,984	-
VETERANS ADMINISTRATION	145,900	15,000	114,200	16,700

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-6. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
TOTAL, ALL AGENCIES	40,601,999	5,550,973	7,982,850	27,068,176
DEPARTMENTS				
DEPARTMENT OF AGRICULTURE, TOTAL	860,039	362,893	462,838	34,308
AGRICULTURAL COOPERATIVE SERVICE	2,514	-	2,514	-
AGRICULTURAL MARKETING SERVICE	1,446	-	1,169	277
ECONOMICS & STATISTICS SERVICE	38,968	8,598	30,370	-
FOREST SERVICE	134,300	40,500	87,100	6,700
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	6,660	2,997	3,197	466
OFFICE OF TRANSPORTATION	1,093	-	-	1,093
SCIENCE & EDUCATION ADMINISTRATION	675,058	310,798	338,488	25,772
AGRICULTURAL RESEARCH	440,870	208,809	206,289	25,772
AGRICULTURAL COOPERATIVE RESEARCH	234,188	101,989	132,199	-
DEPARTMENT OF COMMERCE, TOTAL	287,990	36,670	192,016	59,304
BUREAU OF THE CENSUS	3,753	624	1,676	1,453
MARITIME ADMINISTRATION	14,310	400	8,410	5,500
NATIONAL BUREAU OF STANDARDS	93,487	18,896	56,614	17,977
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	165,421	16,750	115,956	32,715
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	10,400	-	9,360	1,040
PATENT AND TRADEMARK OFFICE	619	-	-	619
DEPARTMENT OF DEFENSE, TOTAL	21,523,190	721,990	2,426,175	18,375,024
DEPARTMENT OF THE ARMY	4,020,292	192,400	447,140	3,380,752
DEPARTMENT OF THE NAVY	6,057,586	282,000	526,400	5,249,186
DEPARTMENT OF THE AIR FORCE	9,542,442	153,700	513,600	8,875,142
DEFENSE AGENCIES	1,853,839	93,890	939,036	820,913
DIRECTOR OF TEST & EVALUATION, DEFENSE	49,031	-	-	49,031
DEPARTMENT OF EDUCATION, TOTAL	95,900	13,489	39,624	42,787
DEPARTMENT OF ENERGY	4,690,233	681,712	939,104	3,069,417
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	4,168,588	2,016,970	1,681,755	469,863
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	259,954	124,138	135,816	-
CENTERS FOR DISEASE CONTROL	77,085	-	77,085	-
FOOD & DRUG ADMINISTRATION	75,400	-	75,400	-
HEALTH CARE FINANCING ADMINISTRATION	46,000	-	46,000	-
HEALTH SERVICES ADMINISTRATION	1,100	-	300	800
NATIONAL INSTITUTES OF HEALTH	3,570,821	1,883,650	1,270,400	416,771
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	21,506	8,182	10,127	3,197
OFFICE OF HUMAN DEVELOPMENT SERVICES	71,702	-	22,607	49,095
OFFICE OF THE SECRETARY	16,700	1,000	15,700	-
SOCIAL SECURITY ADMINISTRATION	28,320	-	28,320	-
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	51,389	-	20,412	30,977
DEPARTMENT OF THE INTERIOR, TOTAL	397,789	79,246	273,597	44,946
BUREAU OF LAND MANAGEMENT	2,010	-	1,580	430
BUREAU OF MINES	107,661	13,700	63,800	30,161
GEOLOGICAL SURVEY	175,399	60,725	114,174	500
NATIONAL PARK SERVICE	13,371	-	13,371	-
OFFICE OF THE SECRETARY	968	968	-	-
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	1,170	-	1,170	-
UNITED STATES FISH AND WILDLIFE SERVICE	87,600	3,723	70,737	13,140
WATER AND POWER RESOURCES SERVICE	9,610	130	8,765	715
DEPARTMENT OF JUSTICE, TOTAL	26,155	5,650	11,910	8,595
DRUG ENFORCEMENT ADMINISTRATION	1,800	-	600	1,200
FEDERAL BUREAU OF INVESTIGATION	1,106	-	-	1,106
FEDERAL PRISON SYSTEM	3,107	-	1,057	2,050
IMMIGRATION AND NATURALIZATION SERVICE	456	-	228	228
OFFICE OF THE ATTORNEY GENERAL	1,306	-	1,000	306
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS	18,380	5,650	9,025	3,705
DEPARTMENT OF LABOR, TOTAL	37,092	2,199	27,160	7,733
BUREAU OF LABOR STATISTICS	879	-	879	-
EMPLOYMENT STANDARDS ADMINISTRATION	4,900	-	4,900	-
EMPLOYMENT AND TRAINING ADMINISTRATION	18,897	2,199	8,965	7,733
LABOR-MANAGEMENT SERVICES ADMINISTRATION	3,055	-	3,055	-
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	8,300	-	8,300	-
OFFICE OF THE SECRETARY	1,061	-	1,061	-
DEPARTMENT OF STATE, TOTAL	1,827	-	1,827	-
DEPARTMENTAL FUNDS	1,827	-	1,827	-

CONTINUED ON NEXT PAGE

TABLE C-6. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
DEPARTMENT OF TRANSPORTATION, TOTAL	404,000	-	91,590	312,410
COAST GUARD	30,000	-	17,000	13,000
FEDERAL AVIATION ADMINISTRATION	120,900	-	9,000	111,900
FEDERAL HIGHWAY ADMINISTRATION	55,800	-	4,700	51,100
FEDERAL RAILROAD ADMINISTRATION	41,000	-	7,000	34,000
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	71,500	-	37,300	34,200
OFFICE OF THE SECRETARY	10,690	-	740	9,950
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	16,360	-	6,400	9,960
URBAN MASS TRANSPORTATION ADMINISTRATION	57,750	-	9,450	48,300
DEPARTMENT OF THE TREASURY, TOTAL	13,955	2,380	5,238	6,337
BUREAU OF ENGRAVING AND PRINTING	4,700	-	1,810	2,890
CUSTOMS SERVICE	3,300	-	100	3,200
INTERNAL REVENUE SERVICE	5,800	2,380	3,328	92
OFFICE OF PROTECTIVE RESEARCH	155	-	-	155
OTHER AGENCIES				
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	2,028	-	2,028	-
APPALACHIAN REGIONAL COMMISSION	400	-	300	100
CONSUMER PRODUCT SAFETY COMMISSION	3,300	-	2,100	1,200
ENVIRONMENTAL PROTECTION AGENCY	302,600	13,800	201,400	87,400
FEDERAL COMMUNICATIONS COMMISSION	1,925	-	1,925	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	17,896	2,670	12,748	2,478
FEDERAL HOME LOAN BANK BOARD	1,321	-	1,321	-
FEDERAL TRADE COMMISSION	4,375	2,153	2,222	-
GENERAL SERVICES ADMINISTRATION	134	-	134	-
INTERNATIONAL COMMUNICATION AGENCY	164	-	138	26
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	151,163	-	98,508	52,655
AGENCY FOR INTERNATIONAL DEVELOPMENT	151,163	-	98,508	52,655
INTERSTATE COMMERCE COMMISSION	150	-	150	-
LIBRARY OF CONGRESS	6,600	100	500	6,000
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	6,017,400	593,018	1,060,930	4,363,452
NATIONAL SCIENCE FOUNDATION	999,900	945,444	54,456	-
NUCLEAR REGULATORY COMMISSION	224,540	-	224,540	-
OFFICE OF PERSONNEL MANAGEMENT	4,991	-	2,627	2,364
SMITHSONIAN INSTITUTION	50,489	50,489	-	-
TENNESSEE VALLEY AUTHORITY	95,500	5,000	15,700	74,800
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	2,150	-	2,150	-
UNITED STATES INTERNATIONAL TRADE COMMISSION	3,926	-	3,926	-
VETERANS ADMINISTRATION	152,900	15,100	121,800	16,000

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-7. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1980

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL								
			UNITED STATES AND TERRITORIES								
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	31,680.4	7,929.4	14,422.0	1,408.1	4,276.9	1,591.6	1133.9	441.8	265.5	211.2
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	687.6	457.2	5.7	-	216.4	-	.3	-	1.1	5.9
AGRICULTURAL COOPERATIVE SVC	1.6	1.4	-	-	.2	-	-	-	-	-
AGRICULTURAL MARKETING SERVICE	1.3	1.2	*	-	*	-	-	-	-	-
ECONOMICS & STATISTICS SERVICE	31.1	29.4	-	-	1.7	-	-	-	-	-
FOREST SERVICE	111.5	101.4	.1	-	9.6	-	.1	-	.2	.2
OFF OF INTERNAT'L COOPERATION & DEV	5.3	.8	-	-	-	-	-	-	-	4.6
OFFICE OF TRANSPORTATION	.8	.8	-	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION .	536.0	322.3	5.6	-	204.9	-	.2	-	.9	2.1
AGRICULTURAL RESEARCH	351.8	315.5	5.6	-	28.1	-	.2	-	.3	2.1
AGRICULTURAL COOPERATIVE RESEARCH	184.2	6.8	-	-	176.8	-	-	-	.6	-
DEPARTMENT OF COMMERCE, TOTAL	342.5	225.5	33.6	-	47.8	.5	13.4	.2	20.8	.9
BUREAU OF THE CENSUS	3.2	2.8	-	-	.4	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	32.3	1.4	2.6	-	4.4	-	11.3	-	12.7	-
MARITIME ADMINISTRATION	19.4	2.2	16.3	-	.7	-	-	-	.3	-
NATIONAL BUREAU OF STANDARDS	76.2	71.3	3.6	-	1.1	-	.2	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	199.8	136.5	11.1	-	41.3	.5	1.9	.2	7.8	.4
NAT'L TELECOMM & INFORMATION ADMIN .	10.7	10.7	-	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	.6	.1	-	-	-	-	-	-	-	.5
PATENT AND TRADEMARK OFFICE	.5	.5	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	13,981.0	3,796.5	9,022.4	91.6	495.3	149.1	114.4	254.9	.2	56.6
DEPARTMENT OF THE ARMY	2,980.0	1,125.2	1,742.2	1.5	59.7	21.6	17.5	7.5	.2	4.6
DEPARTMENT OF THE NAVY	4,706.1	1,303.7	3,004.0	86.5	207.7	16.8	36.7	6.5	-	44.2
DEPARTMENT OF THE AIR FORCE	5,211.0	1,054.8	3,653.8	-	190.4	60.7	33.7	210.7	-	7.0
DEFENSE AGENCIES	1,046.0	279.8	621.1	3.6	37.5	50.1	26.5	26.7	-	.8
DIRECTOR OF TEST & EVALUATION, DEFENSE	37.9	33.0	1.4	-	-	-	-	3.5	-	-
DEPARTMENT OF EDUCATION, TOTAL	139.4	4.0	13.0	-	74.3	-	41.8	-	5.4	.9
DEPARTMENT OF ENERGY	4,753.7	473.6	1,377.0	1,166.2	285.0	1,185.2	58.5	171.6	22.4	14.2
DEPT OF HLTH & HUMAN SERVICES, TOTAL .	3,780.2	820.2	180.9	32.6	2,075.6	11.4	547.6	.7	83.7	27.6
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	233.5	63.3	7.6	-	123.8	-	30.9	-	6.1	1.9
CENTERS FOR DISEASE CONTROL	87.3	66.7	6.6	-	7.7	-	5.2	-	.5	.6
FOOD & DRUG ADMINISTRATION	75.4	59.8	4.7	-	6.9	-	2.3	-	1.7	-
HEALTH CARE FINANCING ADMIN	45.7	5.8	19.1	-	7.1	-	-	-	13.8	-
HEALTH RESOURCES ADMINISTRATION	5.1	.2	-	-	4.7	-	.3	-	-	-
HEALTH SERVICES ADMINISTRATION	26.7	6.4	-	-	6.7	-	10.5	-	3.0	.1
NATIONAL INSTITUTES OF HEALTH	3,181.8	587.1	126.5	32.6	1,888.1	11.4	467.7	.7	43.4	24.4
OFFICE OF ASST'T SECY FOR HEALTH ...	29.9	11.5	4.5	-	11.5	-	2.0	-	-	.4
OFF OF HUMAN DEVELOPMENT SERVICES ..	49.3	2.7	8.8	-	13.0	-	19.4	-	5.4	.1
OFFICE OF THE SECRETARY	24.0	2.0	1.9	-	2.9	-	8.8	-	8.4	-
SOCIAL SECURITY ADMINISTRATION	21.4	14.7	1.3	-	3.4	-	.5	-	1.5	-
DEPT OF HOUSING & URBAN DEVELOPMENT ..	56.0	12.9	21.0	-	5.3	-	15.8	-	1.0	.1
DEPARTMENT OF THE INTERIOR, TOTAL	411.3	242.1	74.0	-	41.9	.3	4.3	.3	47.6	.8
BUREAU OF LAND MANAGEMENT	1.7	.7	-	-	.9	-	-	-	-	-
BUREAU OF MINES	113.4	56.0	47.8	-	5.2	.3	3.4	.3	.4	-
GEOLOGICAL SURVEY	146.3	129.8	5.9	-	10.6	-	-	-	-	-
NATIONAL PARK SERVICE	8.2	6.0	-	-	2.1	-	.2	-	-	-
OFFICE OF THE SECRETARY	2.2	.9	.5	-	-	-	-	-	-	.8
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	7.5	.7	1.7	-	4.9	-	.3	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	29.3	1.8	15.3	-	12.1	-	-	-	.1	-
US FISH & WILDLIFE SERVICE	88.6	39.5	.5	-	1.9	*	.5	*	46.1	-
WATER AND POWER RESOURCES SERVICE ..	14.1	6.6	2.3	-	4.1	-	-	-	1.0	-
DEPARTMENT OF JUSTICE, TOTAL	41.5	2.9	6.3	-	9.2	-	19.4	-	3.8	-
DRUG ENFORCEMENT ADMINISTRATION	2.7	.6	2.1	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	1.4	.2	1.2	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	2.1	.1	-	-	.3	-	.9	-	.8	-
IMMIGRATION & NATURALIZATION SVC ...	.3	.1	.2	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	1.8	.2	1.0	-	.6	-	*	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	33.2	1.7	1.8	-	8.2	-	18.5	-	3.0	-
DEPARTMENT OF LABOR, TOTAL	138.1	12.2	19.8	-	12.9	-	87.8	-	5.4	*
BUREAU OF LABOR STATISTICS	.9	.9	.1	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	4.9	3.9	.5	-	.2	-	.4	-	-	-
EMPLOYMENT & TRAINING ADMIN	121.7	4.4	13.4	-	12.2	-	86.5	-	5.4	-
LABOR-MANAGEMENT SERVICES ADMIN	2.8	1.3	.3	-	.6	-	.6	-	-	*
OCCUPATIONAL SAFETY & HEALTH ADMIN .	6.3	.6	5.4	-	-	-	.3	-	-	-
OFFICE OF THE SECRETARY	1.4	1.1	.2	-	*	-	*	-	-	-

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TABLE C-7. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1980

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF STATE, TOTAL	2.2	0.8	0.9	-	0.2	*	0.2	-	-	-
DEPARTMENTAL FUNDS	2.2	.8	.9	-	.2	*	.2	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	361.2	113.5	161.8	-	28.2	3.7	15.9	-	38.2	-
COAST GUARD	18.0	6.0	11.3	-	.7	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	103.1	24.6	66.2	-	.2	3.3	8.8	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	51.1	11.8	5.6	-	8.2	-	1.2	-	24.3	-
FEDERAL RAILROAD ADMINISTRATION	46.2	15.7	26.3	-	.8	-	1.1	-	2.3	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	63.6	12.9	36.3	-	4.6	-	3.7	-	6.1	-
OFFICE OF THE SECRETARY	10.8	5.8	5.0	-	.1	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	14.0	8.6	1.0	-	4.5	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	54.4	28.1	10.1	-	9.2	.4	1.1	-	5.5	-
DEPARTMENT OF THE TREASURY, TOTAL	12.0	5.5	4.7	-	.2	*	.1	1.0	-	0.7
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	1.6	.2	.3	-	*	*	-	1.0	-	-
BUREAU OF ENGRAVING AND PRINTING ...	2.3	1.8	.5	-	-	-	-	-	-	-
CUSTOMS SERVICE	3.8	.2	2.8	-	.1	-	-	-	-	.7
INTERNAL REVENUE SERVICE	4.0	3.3	.6	-	-	-	.1	-	-	-
OFFICE OF PROTECTIVE RESEARCH	.4	*	.4	-	-	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	2.2	2.2	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	.8	.1	.4	-	-	-	-	-	.3	-
COMMUNITY SERVICES ADMINISTRATION	30.3	1.5	-	-	-	-	28.8	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	3.5	1.9	1.5	-	.1	-	*	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	345.0	145.1	90.1	-	41.1	-	35.7	-	30.9	2.1
FEDERAL COMMUNICATIONS COMMISSION	3.4	2.2	1.2	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	11.8	5.1	2.2	-	1.7	-	2.4	.1	.4	-
FEDERAL HOME LOAN BANK BOARD	1.2	1.2	-	-	-	-	-	-	-	-
FEDERAL TRADE COMMISSION	3.0	3.0	-	-	-	-	*	-	-	-
GENERAL SERVICES ADMINISTRATION	.2	*	.1	-	-	-	-	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	.1	.1	*	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	149.3	5.5	4.7	-	77.1	-	8.3	.5	-	53.2
AGENCY FOR INTERNAT'L DEVELOPMENT ..	149.3	5.5	4.7	-	77.1	-	8.3	.5	-	53.2
INTERSTATE COMMERCE COMMISSION	.1	.1	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	6.9	6.4	.5	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	5,084.1	1,261.9	3,376.5	-	171.2	155.2	76.9	.6	1.2	40.7
NATIONAL SCIENCE FOUNDATION	881.8	75.1	16.3	1.8	684.9	58.9	41.8	.3	1.4	1.4
NUCLEAR REGULATORY COMMISSION	182.7	14.1	5.3	115.9	5.9	26.7	1.8	11.7	.5	.8
OFFICE OF PERSONNEL MANAGEMENT	6.8	3.7	.2	-	.9	-	.5	-	1.5	-
SMITHSONIAN INSTITUTION	41.0	36.6	-	-	-	-	-	-	-	4.4
TENNESSEE VALLEY AUTHORITY	80.1	62.1	-	-	-	-	18.0	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	3.8	.9	1.8	-	.2	.4	.4	-	-	-
US INTERNATIONAL TRADE COMMISSION	2.1	2.1	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	133.4	131.8	-	-	1.6	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

* INDICATES AMOUNT LESS THAN $50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-8. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1981 (ESTIMATED)

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	35,360.5	9,017.8	16,528.5	1,452.4	4,516.0	1,725.6	1102.4	522.3	261.8	233.5
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	770.3	514.8	9.5	-	237.1	-	.4	-	1.4	7.1
AGRICULTURAL COOPERATIVE SVC	2.5	2.1	-	-	.4	-	-	-	-	-
AGRICULTURAL MARKETING SERVICE	1.4	1.4	*	-	*	-	-	-	-	-
ECONOMICS & STATISTICS SERVICE	36.6	34.5	-	-	2.1	-	-	-	-	-
FOREST SERVICE	122.2	111.0	.1	-	10.6	-	.1	-	.2	.2
OFF OF INTERNAT'L COOPERATION & DEV	5.9	.8	-	-	-	-	-	-	-	5.0
OFFICE OF TRANSPORTATION	.8	.8	-	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	600.9	364.3	9.3	-	224.0	-	.3	-	1.2	1.8
AGRICULTURAL RESEARCH	400.0	356.9	9.3	-	31.1	-	.3	-	.5	1.8
AGRICULTURAL COOPERATIVE RESEARCH	200.9	7.3	-	-	192.9	-	-	-	.7	-
DEPARTMENT OF COMMERCE, TOTAL	336.8	235.0	27.8	-	44.0	.7	9.2	.2	19.6	.3
BUREAU OF THE CENSUS	3.6	3.3	-	-	.4	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	24.2	1.2	1.8	-	3.0	-	7.4	-	10.9	-
MARITIME ADMINISTRATION	15.8	2.0	13.1	-	.2	-	-	-	.4	-
NATIONAL BUREAU OF STANDARDS	83.0	78.1	3.7	-	1.2	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	197.8	138.1	9.2	-	39.2	.7	1.9	.2	8.3	.3
NAT'L TELECOMM & INFORMATION ADMIN	11.2	11.2	-	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	.1	*	-	-	-	-	-	-	-	.1
PATENT AND TRADEMARK OFFICE	1.1	1.1	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	16,864.1	4,608.7	10,925.9	106.1	576.1	152.7	129.9	311.0	.2	53.5
DEPARTMENT OF THE ARMY	3,291.0	1,271.1	1,896.9	3.7	62.0	23.4	21.2	8.8	.2	3.7
DEPARTMENT OF THE NAVY	5,061.8	1,475.2	3,175.2	96.8	228.2	6.2	34.3	6.5	-	39.4
DEPARTMENT OF THE AIR FORCE	7,196.0	1,494.7	5,080.6	-	238.7	67.6	45.0	260.6	-	8.6
DEFENSE AGENCIES	1,278.4	335.2	771.6	5.6	47.2	55.6	29.4	32.1	-	1.8
DIRECTOR OF TEST & EVALUATION, DEFENSE	37.0	32.6	1.5	-	-	-	-	2.9	-	-
DEPARTMENT OF EDUCATION, TOTAL	137.2	4.2	12.6	-	71.3	-	41.9	-	4.8	2.5
DEPARTMENT OF ENERGY	4,926.7	516.7	1,314.0	1,178.3	289.1	1,333.1	61.1	194.9	18.7	20.7
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,904.8	842.3	184.3	35.2	2,174.2	13.0	543.1	.8	81.0	30.8
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	233.7	71.5	6.8	-	119.3	-	29.0	-	5.5	1.6
CENTERS FOR DISEASE CONTROL	80.8	62.5	5.9	-	4.9	-	4.7	-	.4	2.4
FOOD & DRUG ADMINISTRATION	74.9	59.7	5.0	-	6.7	-	2.3	-	1.2	-
HEALTH CARE FINANCING ADMIN	46.0	3.2	20.5	-	7.6	-	-	-	14.8	-
HEALTH RESOURCES ADMINISTRATION	5.2	.2	-	-	4.8	-	.2	-	-	-
HEALTH SERVICES ADMINISTRATION	13.0	6.5	-	-	2.7	-	3.1	-	.8	-
NATIONAL INSTITUTES OF HEALTH	3,328.3	608.2	130.5	35.2	1,994.1	13.0	474.5	.8	46.7	25.3
OFFICE OF ASST'T SECY FOR HEALTH	35.7	13.2	2.7	-	16.0	-	2.2	-	-	1.5
OFF OF HUMAN DEVELOPMENT SERVICES	44.8	2.7	8.4	-	11.3	-	17.6	-	4.8	.1
OFFICE OF THE SECRETARY	22.0	2.1	4.2	-	3.1	-	8.7	-	4.0	-
SOCIAL SECURITY ADMINISTRATION	20.2	12.7	.3	-	3.8	-	.6	-	2.9	-
DEPT OF HOUSING & URBAN DEVELOPMENT	51.3	12.4	18.9	-	4.8	-	14.2	-	1.0	-
DEPARTMENT OF THE INTERIOR, TOTAL	422.9	266.1	67.2	.1	32.9	.7	4.1	.4	48.6	2.8
BUREAU OF LAND MANAGEMENT	1.9	.7	-	-	1.2	-	-	-	-	-
BUREAU OF MINES	110.7	55.4	45.7	-	5.2	.3	3.4	.3	.4	-
GEOLOGICAL SURVEY	164.3	149.1	4.7	-	10.4	-	-	-	-	-
NATIONAL PARK SERVICE	10.0	7.8	-	-	2.0	-	.2	-	-	-
OFFICE OF THE SECRETARY	3.9	1.0	.1	-	-	-	-	-	-	2.8
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	6.3	.5	1.3	.1	4.4	-	-	-	*	-
OFFICE OF WATER RSCH & TECHNOLOGY	19.1	1.0	12.6	-	5.4	-	-	-	-	-
US FISH & WILDLIFE SERVICE	92.1	41.6	.6	-	2.0	.4	.5	.1	47.0	-
WATER AND POWER RESOURCES SERVICE	14.7	9.1	2.2	-	2.2	-	-	-	1.2	-
DEPARTMENT OF JUSTICE, TOTAL	34.2	2.0	6.2	-	8.0	-	15.3	-	2.6	.1
DRUG ENFORCEMENT ADMINISTRATION	2.4	.5	1.9	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	.3	.3	*	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	3.1	.1	-	-	.3	-	.9	-	1.8	-
IMMIGRATION & NATURALIZATION SVC	1.0	.1	.9	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	1.5	.1	.9	-	.5	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	25.8	.9	2.5	-	7.2	-	14.4	-	.8	.1
DEPARTMENT OF LABOR, TOTAL	107.6	10.8	13.8	-	13.6	-	66.7	-	2.7	-
BUREAU OF LABOR STATISTICS	.8	.8	-	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	5.9	3.2	1.8	-	.5	-	.4	-	-	-
EMPLOYMENT & TRAINING ADMIN	88.8	4.1	3.8	-	12.5	-	65.7	-	2.7	-
LABOR-MANAGEMENT SERVICES ADMIN	3.1	1.4	.4	-	.7	-	.6	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	8.0	.2	7.8	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	1.0	1.0	-	-	-	-	-	-	-	-

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TABLE C-8. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1981 (ESTIMATED)

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF STATE, TOTAL	1.9	0.7	0.7	*	0.3	*	0.1	0.1	-	-
DEPARTMENTAL FUNDS	1.9	.7	.7	*	.3	*	.1	.1	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	399.4	122.7	184.1	-	29.3	4.3	17.4	-	41.5	-
COAST GUARD	25.0	7.0	17.2	-	.8	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	120.1	28.6	77.1	-	.3	3.8	10.2	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	55.8	12.9	6.1	-	9.4	-	1.3	-	26.1	-
FEDERAL RAILROAD ADMINISTRATION	49.5	17.6	27.8	-	.8	-	1.2	-	2.1	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	67.4	13.0	38.9	-	4.8	-	4.0	-	6.7	-
OFFICE OF THE SECRETARY	10.7	5.3	5.3	-	.1	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	14.9	9.2	1.7	-	4.0	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	56.0	29.1	10.0	-	9.1	.5	.7	-	6.6	-
DEPARTMENT OF THE TREASURY, TOTAL	13.2	7.5	5.3	-	*	-	-	.3	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	.3	.1	-	-	-	-	-	.2	-	-
BUREAU OF ENGRAVING AND PRINTING	4.5	3.3	1.2	-	-	-	-	-	-	-
CUSTOMS SERVICE	3.6	.2	3.2	-	*	-	-	.2	-	-
INTERNAL REVENUE SERVICE	4.7	3.9	.8	-	-	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	.1	*	.1	-	-	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1.8	1.8	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	.4	.1	.1	-	-	-	-	-	.2	-
COMMUNITY SERVICES ADMINISTRATION	14.6	1.5	-	-	-	-	13.1	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	4.2	1.2	2.9	-	.1	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	363.1	157.0	86.9	-	50.3	-	34.7	-	34.3	-
FEDERAL COMMUNICATIONS COMMISSION	2.7	1.9	.8	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	15.1	6.3	3.2	-	1.9	-	3.1	.1	.5	-
FEDERAL HOME LOAN BANK BOARD	1.2	1.1	-	-	*	-	-	-	-	-
FEDERAL TRADE COMMISSION	4.2	4.2	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	.4	.1	.3	-	-	-	*	-	-	-
INTERNATIONAL COMMUNICATION AGENCY	.3	.2	.1	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	127.9	7.6	2.6	-	54.3	-	3.5	.4	-	59.6
AGENCY FOR INTERNAT'L DEVELOPMENT	127.9	7.6	2.6	-	54.3	-	3.5	.4	-	59.6
INTERSTATE COMMERCE COMMISSION	.2	.2	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	6.2	5.9	.3	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	5,407.7	1,322.0	3,635.4	-	188.0	128.6	81.8	.6	1.1	50.2
NATIONAL SCIENCE FOUNDATION	937.4	81.0	18.5	1.8	731.0	62.3	39.1	.2	2.0	1.4
NUCLEAR REGULATORY COMMISSION	207.7	16.1	6.2	130.8	7.0	30.0	2.8	13.3	.4	1.0
OFFICE OF PERSONNEL MANAGEMENT	8.5	5.9	.1	-	1.1	-	.3	-	1.1	-
SMITHSONIAN INSTITUTION	45.2	41.6	-	-	-	-	-	-	-	3.6
TENNESSEE VALLEY AUTHORITY	91.1	70.6	-	-	-	-	20.5	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	1.5	.5	.7	-	.1	.2	.1	-	-	-
US INTERNATIONAL TRADE COMMISSION	3.0	3.0	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	145.9	144.3	-	-	1.6	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

* INDICATES AMOUNT LESS THAN $50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-9. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1982 (ESTIMATED)

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	40,602.0	9,995.8	20,350.9	1,536.3	4,777.7	1,882.7	1093.0	445.2	222.5	298.0
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	860.0	563.1	10.4	-	277.3	-	.5	-	1.5	7.3
AGRICULTURAL COOPERATIVE SVC	2.5	2.1	-	-	.4	-	-	-	-	-
AGRICULTURAL MARKETING SERVICE	1.4	1.4	*	-	*	-	-	-	-	-
ECONOMICS & STATISTICS SERVICE	39.0	36.9	-	-	2.1	-	-	-	-	-
FOREST SERVICE	134.3	121.6	.1	-	12.0	-	.1	-	.2	.2
OFF OF INTERNAT'L COOPERATION & DEV	6.7	.9	-	-	-	-	-	-	-	5.8
OFFICE OF TRANSPORTATION	1.1	1.1	-	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	675.1	399.1	10.2	-	262.7	-	.4	-	1.3	1.3
AGRICULTURAL RESEARCH	440.9	390.8	10.2	-	37.6	-	.4	-	.6	1.3
AGRICULTURAL COOPERATIVE RESEARCH	234.2	8.3	-	-	225.1	-	-	-	.8	-
DEPARTMENT OF COMMERCE, TOTAL	238.0	241.7	26.1	-	17.0	.9	1.4	.1	.7	*
BUREAU OF THE CENSUS	3.8	3.4	-	-	.4	-	-	-	-	-
MARITIME ADMINISTRATION	14.3	1.8	12.0	-	.2	-	-	-	.3	-
NATIONAL BUREAU OF STANDARDS	93.5	88.0	4.2	-	1.3	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	165.4	137.5	10.0	-	15.1	.9	1.4	.1	.4	*
NAT'L TELECOMM & INFORMATION ADMIN	10.4	10.4	-	-	-	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	.6	.6	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	21,523.2	5,585.9	14,333.1	139.6	709.7	192.6	148.5	366.0	.2	47.7
DEPARTMENT OF THE ARMY	4,020.3	1,518.8	2,356.0	3.3	83.4	24.7	18.5	10.9	.2	4.6
DEPARTMENT OF THE NAVY	6,057.6	1,547.1	4,025.4	130.0	269.2	17.7	34.5	6.5	-	27.3
DEPARTMENT OF THE AIR FORCE	9,542.4	1,960.8	6,831.2	-	291.9	78.8	58.2	311.6	-	10.0
DEFENSE AGENCIES	1,853.8	515.7	1,118.6	6.3	65.3	71.5	37.3	33.4	-	5.9
DIRECTOR OF TEST & EVALUATION, DEFENSE	49.0	43.5	2.0	-	-	-	-	3.6	-	-
DEPARTMENT OF EDUCATION, TOTAL	95.9	1.5	12.4	-	43.3	-	33.7	-	3.4	1.6
DEPARTMENT OF ENERGY	4,690.2	366.8	1,298.8	1,211.9	280.4	1,415.8	48.4	55.6	3.4	9.1
DEPT OF HLTH & HUMAN SERVICES, TOTAL	4,168.6	894.1	196.9	41.4	2,294.3	15.2	605.0	4.5	84.3	32.9
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	260.0	98.1	6.2	-	119.5	-	29.2	-	5.4	1.5
CENTERS FOR DISEASE CONTROL	77.1	58.7	5.9	-	4.9	-	4.7	-	.4	2.4
FOOD & DRUG ADMINISTRATION	75.4	60.1	5.0	-	6.8	-	2.3	-	1.2	-
HEALTH CARE FINANCING ADMIN	46.0	3.2	20.5	-	7.6	-	-	-	14.8	-
HEALTH SERVICES ADMINISTRATION	1.1	1.1	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	3,570.8	649.6	141.1	41.4	2,134.7	15.2	508.9	1.1	51.4	27.5
OFFICE OF ASST'T SECY FOR HEALTH	21.5	7.8	3.4	-	7.0	-	1.9	-	-	1.5
OFF OF HUMAN DEVELOPMENT SERVICES	71.7	1.9	3.2	-	8.1	-	50.3	-	8.2	.1
OFFICE OF THE SECRETARY	16.7	1.3	3.0	-	2.0	-	7.2	3.4	-	-
SOCIAL SECURITY ADMINISTRATION	28.3	12.6	8.6	-	3.7	-	.6	-	2.9	-
DEPT OF HOUSING & URBAN DEVELOPMENT	51.4	13.2	18.7	-	4.7	-	13.8	-	1.0	-
DEPARTMENT OF THE INTERIOR, TOTAL	397.8	271.7	48.2	.1	25.7	.7	4.4	.4	46.8	-
BUREAU OF LAND MANAGEMENT	2.0	.7	-	-	1.4	-	-	-	-	-
BUREAU OF MINES	107.7	55.7	42.4	-	5.2	.3	3.4	.3	.4	-
GEOLOGICAL SURVEY	175.4	161.2	3.7	-	10.4	-	-	-	-	-
NATIONAL PARK SERVICE	13.4	7.4	-	-	5.5	-	.5	-	-	-
OFFICE OF THE SECRETARY	1.0	.8	.1	-	-	-	-	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1.2	.4	.4	.1	-	-	-	-	.3	-
US FISH & WILDLIFE SERVICE	87.6	38.9	.5	-	1.9	.4	.5	.1	45.5	-
WATER AND POWER RESOURCES SERVICE	9.6	6.6	1.1	-	1.3	-	-	-	.6	-
DEPARTMENT OF JUSTICE, TOTAL	26.2	2.0	6.4	-	4.6	-	10.2	-	3.0	-
DRUG ENFORCEMENT ADMINISTRATION	1.8	.6	1.2	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	1.1	.3	.8	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	3.1	.1	-	-	.3	-	.9	-	1.8	-
IMMIGRATION & NATURALIZATION SVC	.5	.1	.3	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	1.3	.1	.8	-	.3	-	.1	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	18.4	.8	3.2	-	4.0	-	9.2	-	1.2	-
DEPARTMENT OF LABOR, TOTAL	37.1	8.1	15.0	-	5.6	-	4.6	-	3.6	-
BUREAU OF LABOR STATISTICS	.9	.9	-	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	4.9	1.4	2.6	-	.5	-	.4	-	-	-
EMPLOYMENT & TRAINING ADMIN	18.9	3.1	4.1	-	4.4	-	3.6	-	3.6	-
LABOR-MANAGEMENT SERVICES ADMIN	3.1	1.4	.4	-	.7	-	.6	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	8.3	.3	8.0	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	1.1	1.1	-	-	-	-	-	-	-	-

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TABLE C-9. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1982 (ESTIMATED)

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL								
			UNITED STATES AND TERRITORIES								
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF STATE, TOTAL	1.8	0.7	0.6	*	0.3	*	0.1	0.1	-	-
DEPARTMENTAL FUNDS	1.8	.7	.6	*	.3	*	.1	.1	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	404.0	133.5	177.0	-	29.9	4.4	17.6	1.7	39.9	-
COAST GUARD	30.0	18.2	10.9	-	.9	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	120.9	28.8	77.5	-	.3	3.9	10.4	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	55.8	12.9	6.1	-	9.4	-	1.3	-	26.1	-
FEDERAL RAILROAD ADMINISTRATION	41.0	14.6	23.0	-	.7	-	1.0	1.7	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	71.5	12.9	41.7	-	5.2	-	4.3	-	7.4	-
OFFICE OF THE SECRETARY	10.7	5.3	5.3	-	.1	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	16.4	10.3	2.2	-	3.9	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	57.8	30.4	10.3	-	9.5	.5	.7	-	6.4	-
DEPARTMENT OF THE TREASURY, TOTAL	14.0	7.6	5.7	-	-	-	.1	.5	-	-
BUREAU OF ENGRAVING AND PRINTING	4.7	3.8	.9	-	-	-	-	-	-	-
CUSTOMS SERVICE	3.3	.2	2.6	-	-	-	-	.5	-	-
INTERNAL REVENUE SERVICE	5.8	3.6	2.1	-	-	-	.1	-	-	-
OFFICE OF PROTECTIVE RESEARCH	.2	*	.2	-	-	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	2.0	2.0	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	.4	.1	.2	-	-	-	-	-	.2	-
CONSUMER PRODUCT SAFETY COMMISSION	3.3	1.0	2.3	-	.1	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	302.6	112.9	81.2	-	37.6	-	38.3	-	31.2	1.3
FEDERAL COMMUNICATIONS COMMISSION	1.9	1.7	.3	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	17.9	7.3	4.1	-	2.0	-	3.6	.2	.6	-
FEDERAL HOME LOAN BANK BOARD	1.3	1.3	-	-	*	-	-	-	-	-
FEDERAL TRADE COMMISSION	4.4	4.4	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	.1	.1	-	-	-	-	*	-	-	-
INTERNATIONAL COMMUNICATION AGENCY	.2	*	.1	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	151.2	8.4	3.5	-	61.3	-	6.0	.6	-	71.4
AGENCY FOR INTERNAT'L DEVELOPMENT	151.2	8.4	3.5	-	61.3	-	6.0	.6	-	71.4
INTERSTATE COMMERCE COMMISSION	.2	.2	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	6.6	6.3	.3	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	6,017.4	1,381.0	4,076.6	-	196.0	151.3	91.0	.6	1.0	120.0
NATIONAL SCIENCE FOUNDATION	999.9	82.1	25.6	1.8	779.3	69.1	38.8	.4	1.5	1.3
NUCLEAR REGULATORY COMMISSION	224.5	18.7	6.7	141.5	6.9	32.3	2.6	14.6	.2	1.0
OFFICE OF PERSONNEL MANAGEMENT	5.0	4.9	.1	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	50.5	46.0	-	-	-	-	-	-	-	4.5
TENNESSEE VALLEY AUTHORITY	95.5	71.4	-	-	-	-	24.1	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	2.2	.9	.5	-	.1	.3	.3	-	-	-
US INTERNATIONAL TRADE COMMISSION	3.9	3.9	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	152.9	151.3	-	-	1.6	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

* INDICATES AMOUNT LESS THAN $50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-10. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	11,697,378	3,666,272	2,077,605	311,031	3,699,071	951,155	678,446	71,719	150,932	91,147
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	657,435	429,902	5,354	-	214,442	-	280	-	1,073	6,379
AGRICULTURAL COOPERATIVE SVC	1,634	1,419	-	-	215	-	-	-	-	-
AGRICULTURAL MARKETING SERVICE	1,000	950	25	-	25	-	-	-	-	-
ECONOMICS & STATISTICS SERVICE	31,051	29,356	-	-	1,695	-	-	-	-	-
FOREST SERVICE	106,055	95,876	103	-	9,600	-	95	-	165	216
OFF OF INTERNAT'L COOPERATION & DEV	4,939	707	-	-	-	-	-	-	-	4,232
SCIENCE & EDUCATION ADMINISTRATION	512,756	301,594	5,226	-	202,907	-	185	-	913	1,931
AGRICULTURAL RESEARCH	328,551	294,785	5,226	-	26,132	-	185	-	292	1,931
AGRICULTURAL COOPERATIVE RESEARCH	184,205	6,809	-	-	176,775	-	-	-	621	-
DEPARTMENT OF COMMERCE, TOTAL	254,433	182,742	19,298	-	40,715	383	2,403	163	7,891	838
BUREAU OF THE CENSUS	1,948	1,592	-	-	356	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	2,500	218	404	-	1,100	-	718	-	60	-
MARITIME ADMINISTRATION	12,136	2,025	9,761	-	350	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	58,393	57,037	870	-	317	-	169	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	169,310	112,185	8,263	-	38,592	383	1,516	163	7,831	377
NAT'L TELECOMM & INFORMATION ADMIN	9,625	9,625	-	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	521	60	-	-	-	-	-	-	-	461
DEPARTMENT OF DEFENSE, TOTAL	2,251,769	850,389	969,615	3,606	312,590	55,327	46,702	12,577	50	10,313
DEPARTMENT OF THE ARMY	479,255	307,917	105,077	-	49,028	2,685	10,048	1,555	50	2,895
DEPARTMENT OF THE NAVY	611,100	265,810	216,696	-	113,905	2,579	5,221	1,820	-	5,069
DEPARTMENT OF THE AIR FORCE	537,300	156,939	251,966	-	115,503	-	8,764	35	-	4,093
DEFENSE AGENCIES	634,114	119,823	393,876	3,606	34,153	50,063	22,669	9,167	-	757
DEPARTMENT OF EDUCATION, TOTAL	37,575	2,406	8,059	-	1,813	-	20,691	-	3,675	931
DEPARTMENT OF ENERGY	1,277,326	80,771	64,858	158,377	224,134	651,985	36,692	45,537	1,032	3,990
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,332,777	748,950	130,503	21,353	1,986,203	10,380	445,151	600	67,325	21,312
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	233,536	63,306	7,563	-	123,759	-	30,932	-	6,089	1,888
CENTERS FOR DISEASE CONTROL	87,257	66,693	6,593	-	7,570	-	5,209	-	463	729
FOOD & DRUG ADMINISTRATION	75,400	59,824	4,680	-	6,896	-	2,255	-	1,745	-
HEALTH CARE FINANCING ADMIN	45,727	5,750	19,081	-	7,084	-	-	-	13,812	-
HEALTH RESOURCES ADMINISTRATION	5,140	154	-	-	4,676	-	310	-	-	-
HEALTH SERVICES ADMINISTRATION	8,023	4,039	-	-	2,998	-	832	-	154	-
NATIONAL INSTITUTES OF HEALTH	2,787,470	521,346	83,473	21,353	1,711,172	10,380	386,359	600	34,026	18,761
OFFICE OF ASST'T SECY FOR HEALTH	25,706	9,857	3,953	-	9,752	-	1,722	-	-	422
OFF OF HUMAN DEVELOPMENT SERVICES	19,131	1,223	1,943	-	5,859	-	8,298	-	1,636	112
OFFICE OF THE SECRETARY	24,000	2,044	1,932	-	2,900	-	8,769	-	8,355	-
SOCIAL SECURITY ADMINISTRATION	21,387	14,714	1,285	-	3,429	-	456	-	1,493	-
DEPT OF HOUSING & URBAN DEVELOPMENT	19,601	11,986	4,352	-	991	-	2,118	-	99	55
DEPARTMENT OF THE INTERIOR, TOTAL	354,446	219,445	47,553	-	37,506	107	1,914	115	46,975	831
BUREAU OF LAND MANAGEMENT	1,323	584	-	-	739	-	-	-	-	-
BUREAU OF MINES	82,800	47,700	32,400	-	1,500	100	1,000	100	-	-
GEOLOGICAL SURVEY	145,839	129,753	5,441	-	10,645	-	-	-	-	-
NATIONAL PARK SERVICE	8,243	5,995	-	-	2,091	-	157	-	-	-
OFFICE OF THE SECRETARY	2,233	930	472	-	-	-	-	-	-	831
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	7,471	666	1,660	-	4,867	-	278	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	18,400	1,200	5,000	-	12,100	-	-	-	100	-
US FISH & WILDLIFE SERVICE	75,226	26,779	434	-	1,532	7	479	15	45,830	-
WATER AND POWER RESOURCES SERVICE	12,911	5,938	2,146	-	3,932	-	-	-	995	-
DEPARTMENT OF JUSTICE, TOTAL	28,760	1,109	1,980	-	8,549	-	15,204	-	1,918	-
DRUG ENFORCEMENT ADMINISTRATION	800	100	700	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	857	57	-	-	300	-	-	-	500	-
IMMIGRATION & NATURALIZATION SVC	151	56	95	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	1,320	170	500	-	640	-	10	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	25,632	726	685	-	7,609	-	15,194	-	1,418	-
DEPARTMENT OF LABOR, TOTAL	36,432	9,981	10,370	-	4,513	-	11,548	-	14	6
BUREAU OF LABOR STATISTICS	925	860	65	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	4,900	3,900	450	-	150	-	400	-	-	-
EMPLOYMENT & TRAINING ADMIN	20,124	2,187	3,953	-	3,741	-	10,229	-	14	-
LABOR-MANAGEMENT SERVICES ADMIN	2,819	1,312	318	-	609	-	575	-	-	6
OCCUPATIONAL SAFETY & HEALTH ADMIN	6,300	607	5,366	-	-	-	327	-	-	-
OFFICE OF THE SECRETARY	1,364	1,115	218	-	14	-	17	-	-	-

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TABLE C-10. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF STATE, TOTAL	1,956	771	748	-	168	20	249	-	-	-
DEPARTMENTAL FUNDS	1,956	771	748	-	168	20	249	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	82,445	28,651	39,211	-	8,234	-	3,521	-	2,828	-
COAST GUARD	8,100	2,800	5,100	-	200	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	8,200	1,804	6,396	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,600	1,173	2,120	-	-	-	1,172	-	135	-
FEDERAL RAILROAD ADMINISTRATION	7,900	6,085	1,815	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	38,615	11,817	19,907	-	2,689	-	1,809	-	2,393	-
OFFICE OF THE SECRETARY	640	210	430	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	5,500	2,561	643	-	2,296	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	8,890	2,201	2,800	-	3,049	-	540	-	300	-
DEPARTMENT OF THE TREASURY, TOTAL	5,687	4,504	1,002	-	40	26	84	31	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	346	80	169	-	40	26	-	31	-	-
BUREAU OF ENGRAVING AND PRINTING	1,300	1,100	200	-	-	-	-	-	-	-
CUSTOMS SERVICE	100	100	-	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	3,941	3,224	633	-	-	-	84	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,219	2,219	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	600	50	350	-	-	-	-	-	200	-
COMMUNITY SERVICES ADMINISTRATION	1,250	25	-	-	-	-	1,225	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	1,600	672	848	-	80	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	245,100	106,314	65,798	-	39,888	-	16,300	-	14,700	2,100
FEDERAL COMMUNICATIONS COMMISSION	3,420	2,196	1,224	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	9,330	3,644	2,122	-	1,662	-	1,485	100	317	-
FEDERAL HOME LOAN BANK BOARD	1,227	1,227	-	-	-	-	-	-	-	-
FEDERAL TRADE COMMISSION	3,021	3,021	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	105	1	71	-	-	-	33	-	-	-
INTERNATIONAL COMMUNICATION AGENCY	83	80	3	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	79,664	5,316	2,766	-	34,502	-	2,560	241	-	34,279
AGENCY FOR INTERNAT'L DEVELOPMENT	79,664	5,316	2,766	-	34,502	-	2,560	241	-	34,279
INTERSTATE COMMERCE COMMISSION	143	143	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	600	600	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,609,644	710,213	678,664	-	146,104	47,027	24,346	359	463	2,468
NATIONAL SCIENCE FOUNDATION	873,687	75,049	16,305	1,754	680,035	58,890	38,600	265	1,351	1,433
NUCLEAR REGULATORY COMMISSION	182,672	14,096	5,301	115,941	5,902	26,688	1,760	11,731	465	737
OFFICE OF PERSONNEL MANAGEMENT	2,601	2,211	160	-	210	-	20	-	-	-
SMITHSONIAN INSTITUTION	41,006	36,557	-	-	-	-	-	-	-	4,449
TENNESSEE VALLEY AUTHORITY	15,800	10,600	-	-	-	-	5,200	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	2,996	885	1,090	-	239	422	360	-	-	-
US INTERNATIONAL TRADE COMMISSION	2,068	2,068	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	117,900	117,478	-	-	422	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-11. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL								
			UNITED STATES AND TERRITORIES								FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS		
TOTAL, ALL AGENCIES	12,359,294	3,881,764	2,243,070	348,090	3,941,198	932,136	685,648	68,033	150,441	108,914
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	738,694	486,445	8,919	-	235,025	-	422	-	1,337	5,546
AGRICULTURAL COOPERATIVE SVC	2,469	2,069	-	-	400	-	-	-	-	-
AGRICULTURAL MARKETING SERVICE	1,141	1,081	30	-	30	-	-	-	-	-
ECONOMICS & STATISTICS SERVICE	36,585	34,485	-	-	2,100	-	-	-	-	-
FOREST SERVICE	116,200	104,957	112	-	10,600	-	110	-	183	238
OFF OF INTERNAT'L COOPERATION & DEV	5,382	778	-	-	-	-	-	-	-	4,604
SCIENCE & EDUCATION ADMINISTRATION	576,917	343,075	8,777	-	221,895	-	312	-	1,154	1,704
AGRICULTURAL RESEARCH	376,020	335,760	8,777	-	28,981	-	312	-	486	1,704
AGRICULTURAL COOPERATIVE RESEARCH	200,897	7,315	-	-	192,914	-	-	-	668	-
DEPARTMENT OF COMMERCE, TOTAL	257,383	191,371	14,813	-	39,694	650	2,088	165	8,298	304
BUREAU OF THE CENSUS	2,304	1,939	-	-	365	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	1,800	152	275	-	800	-	573	-	-	-
MARITIME ADMINISTRATION	9,866	1,900	7,831	-	135	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	65,134	63,314	900	-	920	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	168,033	113,871	5,807	-	37,474	650	1,515	165	8,298	253
NAT'L TELECOMM & INFORMATION ADMIN	10,189	10,189	-	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	57	6	-	-	-	-	-	-	-	51
DEPARTMENT OF DEFENSE, TOTAL	2,584,004	915,369	1,153,935	5,607	368,796	60,131	51,461	15,800	46	12,859
DEPARTMENT OF THE ARMY	513,815	307,872	133,658	-	55,528	1,902	10,249	1,714	46	2,945
DEPARTMENT OF THE NAVY	701,500	292,649	260,308	-	135,149	2,635	5,611	1,691	-	3,457
DEPARTMENT OF THE AIR FORCE	608,200	174,556	285,418	-	133,340	100	10,054	40	-	4,692
DEFENSE AGENCIES	760,489	140,292	474,551	5,607	44,779	55,594	25,547	12,355	-	1,764
DEPARTMENT OF EDUCATION, TOTAL	87,312	2,739	8,101	-	49,840	-	21,070	-	3,070	2,492
DEPARTMENT OF ENERGY	1,407,444	67,685	109,778	185,603	233,536	727,508	38,798	36,808	554	7,174
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,470,466	770,852	134,512	24,106	1,987,532	11,829	448,396	758	67,567	24,914
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	233,677	71,469	6,833	-	119,270	-	29,048	-	5,464	1,593
CENTERS FOR DISEASE CONTROL	80,844	62,481	5,933	-	4,944	-	4,712	-	419	2,355
FOOD & DRUG ADMINISTRATION	74,900	59,708	4,990	-	6,700	-	2,300	-	1,202	-
HEALTH CARE FINANCING ADMIN	46,000	3,150	20,500	-	7,600	-	-	-	14,750	-
HEALTH RESOURCES ADMINISTRATION	5,155	155	-	-	4,800	-	200	-	-	-
HEALTH SERVICES ADMINISTRATION	6,129	3,390	-	-	2,054	-	575	-	110	-
NATIONAL INSTITUTES OF HEALTH	2,934,290	543,234	87,332	24,106	1,817,170	11,829	393,229	758	37,266	19,366
OFFICE OF ASST'T SECY FOR HEALTH	30,920	11,367	2,513	-	13,616	-	1,904	-	-	1,520
OFF OF HUMAN DEVELOPMENT SERVICES	16,303	1,191	1,943	-	4,531	-	7,093	-	1,465	80
OFFICE OF THE SECRETARY	22,000	2,051	4,150	-	3,095	-	8,724	-	3,980	-
SOCIAL SECURITY ADMINISTRATION	20,248	12,656	318	-	3,752	-	611	-	2,911	-
DEPT OF HOUSING & URBAN DEVELOPMENT	19,054	11,652	4,230	-	962	-	2,060	-	150	-
DEPARTMENT OF THE INTERIOR, TOTAL	364,351	242,251	40,156	86	28,465	500	1,700	180	48,196	2,817
BUREAU OF LAND MANAGEMENT	1,458	508	-	-	950	-	-	-	-	-
BUREAU OF MINES	79,500	46,400	30,400	-	1,500	100	1,000	100	-	-
GEOLOGICAL SURVEY	164,266	149,112	4,724	-	10,430	-	-	-	-	-
NATIONAL PARK SERVICE	10,025	7,777	-	-	2,048	-	200	-	-	-
OFFICE OF THE SECRETARY	3,928	991	120	-	-	-	-	-	-	2,817
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	6,290	464	1,303	86	4,401	-	-	-	36	-
OFFICE OF WATER RSCH & TECHNOLOGY	6,988	446	1,125	-	5,417	-	-	-	-	-
US FISH & WILDLIFE SERVICE	78,285	28,170	450	-	1,685	400	500	80	47,000	-
WATER AND POWER RESOURCES SERVICE	13,611	8,383	2,034	-	2,034	-	-	-	1,160	-
DEPARTMENT OF JUSTICE, TOTAL	23,397	685	2,615	-	7,202	-	11,765	-	1,050	80
DRUG ENFORCEMENT ADMINISTRATION	700	100	600	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	1,057	57	-	-	300	-	-	-	700	-
IMMIGRATION & NATURALIZATION SVC	516	56	460	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	1,500	100	900	-	500	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	19,624	372	655	-	6,402	-	11,765	-	350	80
DEPARTMENT OF LABOR, TOTAL	36,435	9,111	11,012	-	6,946	-	9,346	-	20	-
BUREAU OF LABOR STATISTICS	838	838	-	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	5,900	3,200	1,800	-	500	-	400	-	-	-
EMPLOYMENT & TRAINING ADMIN	17,630	2,412	1,094	-	5,778	-	8,326	-	20	-
LABOR-MANAGEMENT SERVICES ADMIN	3,055	1,409	358	-	668	-	620	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	8,000	240	7,760	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	1,012	1,012	-	-	-	-	-	-	-	-

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TABLE C-11. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF STATE, TOTAL	1,727	647	626	40	259	20	85	50	-	-
DEPARTMENTAL FUNDS	1,727	647	626	40	259	20	85	50	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	91,641	29,530	47,614	-	7,922	-	3,119	-	3,456	-
COAST GUARD	15,800	2,000	13,500	-	300	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	9,500	2,090	7,410	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,700	1,273	1,959	-	-	-	1,322	-	146	-
FEDERAL RAILROAD ADMINISTRATION	8,400	6,535	1,865	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	38,369	11,742	19,780	-	2,672	-	1,797	-	2,378	-
OFFICE OF THE SECRETARY	740	240	500	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	5,600	3,550	-	-	2,050	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	8,532	2,100	2,600	-	2,900	-	-	-	932	-
DEPARTMENT OF THE TREASURY, TOTAL	6,629	5,577	1,002	-	-	-	-	50	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	100	50	-	-	-	-	-	50	-	-
BUREAU OF ENGRAVING AND PRINTING	1,862	1,588	274	-	-	-	-	-	-	-
CUSTOMS SERVICE	100	100	-	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	4,567	3,839	728	-	-	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,827	1,827	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	280	10	75	-	-	-	-	-	195	-
COMMUNITY SERVICES ADMINISTRATION	1,000	20	-	-	-	-	980	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	2,700	261	2,352	-	87	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	259,900	116,269	63,965	-	46,937	-	18,943	-	13,786	-
FEDERAL COMMUNICATIONS COMMISSION	2,690	1,858	832	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	12,624	4,815	3,155	-	1,865	-	2,172	149	468	-
FEDERAL HOME LOAN BANK BOARD	1,150	1,125	-	-	25	-	-	-	-	-
FEDERAL TRADE COMMISSION	4,166	4,166	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	373	50	290	-	-	-	33	-	-	-
INTERNATIONAL COMMUNICATION AGENCY	220	124	96	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	87,160	7,500	1,750	-	32,291	-	1,990	200	-	43,429
AGENCY FOR INTERNAT'L DEVELOPMENT	87,160	7,500	1,750	-	32,291	-	1,990	200	-	43,429
INTERSTATE COMMERCE COMMISSION	175	175	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	600	600	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,554,566	722,529	608,364	-	158,000	39,030	23,512	350	455	2,326
NATIONAL SCIENCE FOUNDATION	933,404	80,969	18,316	1,814	728,254	62,270	38,804	240	1,352	1,385
NUCLEAR REGULATORY COMMISSION	207,673	16,106	6,230	130,834	6,987	30,048	2,769	13,283	441	975
OFFICE OF PERSONNEL MANAGEMENT	4,027	3,752	75	-	200	-	-	-	-	-
SMITHSONIAN INSTITUTION	45,188	41,575	-	-	-	-	-	-	-	3,613
TENNESSEE VALLEY AUTHORITY	17,800	11,800	-	-	-	-	6,000	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	1,050	458	257	-	50	150	135	-	-	-
US INTERNATIONAL TRADE COMMISSION	2,984	2,984	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	129,200	128,877	-	-	323	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-12. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	13,533,823	4,194,891	2,627,631	403,823	4,180,189	1,095,230	711,213	63,052	142,514	115,280
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	825,731	532,438	9,774	-	274,758	-	462	-	1,481	6,818
AGRICULTURAL COOPERATIVE SVC	2,514	2,114	-	-	400	-	-	-	-	-
AGRICULTURAL MARKETING SERVICE	1,169	1,109	30	-	30	-	-	-	-	-
ECONOMICS & STATISTICS SERVICE	38,968	36,868	-	-	2,100	-	-	-	-	-
FOREST SERVICE	127,600	114,932	116	-	12,000	-	121	-	191	240
OFF OF INTERNAT'L COOPERATION & DEV	6,194	843	-	-	-	-	-	-	-	5,351
SCIENCE & EDUCATION ADMINISTRATION	649,286	376,572	9,628	-	260,228	-	341	-	1,290	1,227
AGRICULTURAL RESEARCH	415,098	368,289	9,628	-	35,079	-	341	-	534	1,227
AGRICULTURAL COOPERATIVE RESEARCH	234,188	8,283	-	-	225,149	-	-	-	756	-
DEPARTMENT OF COMMERCE, TOTAL	228,686	197,090	14,959	-	14,393	500	1,162	138	414	30
BUREAU OF THE CENSUS	2,300	1,933	-	-	367	-	-	-	-	-
MARITIME ADMINISTRATION	8,810	1,700	6,970	-	140	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	75,510	72,695	1,795	-	1,020	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	132,706	111,402	6,194	-	12,866	500	1,162	138	414	30
NAT'L TELECOMM & INFORMATION ADMIN	9,360	9,360	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	3,148,166	1,041,122	1,479,648	6,279	454,107	75,593	63,111	12,794	50	15,462
DEPARTMENT OF THE ARMY	639,540	365,868	176,786	-	79,070	473	11,757	2,100	50	3,436
DEPARTMENT OF THE NAVY	808,400	313,951	317,210	-	163,002	3,550	7,424	1,730	-	1,533
DEPARTMENT OF THE AIR FORCE	667,300	185,933	315,546	-	149,855	100	11,191	40	-	4,635
DEFENSE AGENCIES	1,032,926	175,370	670,106	6,279	62,180	71,470	32,739	8,924	-	5,858
DEPARTMENT OF EDUCATION, TOTAL	53,113	1,116	8,663	-	24,241	-	15,619	-	1,879	1,595
DEPARTMENT OF ENERGY	1,620,816	93,366	132,749	225,377	242,907	857,350	35,560	29,745	500	3,262
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,698,725	821,869	147,782	28,773	2,106,334	13,673	477,251	4,369	72,161	26,513
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	259,954	98,057	6,229	-	119,549	-	29,203	-	5,432	1,484
CENTERS FOR DISEASE CONTROL	77,085	58,708	5,933	-	4,933	-	4,712	-	419	2,380
FOOD & DRUG ADMINISTRATION	75,400	60,108	4,990	-	6,800	-	2,300	-	1,202	-
HEALTH CARE FINANCING ADMIN	46,000	3,150	20,500	-	7,600	-	-	-	14,750	-
HEALTH SERVICES ADMINISTRATION	300	300	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	3,154,050	580,799	95,674	28,773	1,949,006	13,673	423,049	1,019	41,011	21,045
OFFICE OF ASST'T SECY FOR HEALTH	18,309	6,512	2,841	-	5,858	-	1,575	-	-	1,523
OFF OF HUMAN DEVELOPMENT SERVICES	22,607	431	50	-	6,924	-	8,657	-	6,465	80
OFFICE OF THE SECRETARY	16,700	1,250	3,000	-	1,950	-	7,150	3,350	-	-
SOCIAL SECURITY ADMINISTRATION	28,320	12,554	8,565	-	3,714	-	605	-	2,882	-
DEPT OF HOUSING & URBAN DEVELOPMENT	20,412	12,482	4,531	-	1,031	-	2,207	-	161	-
DEPARTMENT OF THE INTERIOR, TOTAL	352,843	249,490	33,248	60	21,310	475	1,970	160	46,130	-
BUREAU OF LAND MANAGEMENT	1,580	480	-	-	1,100	-	-	-	-	-
BUREAU OF MINES	77,500	46,700	28,100	-	1,500	100	1,000	100	-	-
GEOLOGICAL SURVEY	174,899	161,237	3,232	-	10,430	-	-	-	-	-
NATIONAL PARK SERVICE	13,371	7,371	-	-	5,500	-	500	-	-	-
OFFICE OF THE SECRETARY	968	840	128	-	-	-	-	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,170	442	368	60	-	-	-	-	300	-
US FISH & WILDLIFE SERVICE	74,460	26,325	420	-	1,580	375	470	60	45,230	-
WATER AND POWER RESOURCES SERVICE	8,895	6,095	1,000	-	1,200	-	-	-	600	-
DEPARTMENT OF JUSTICE, TOTAL	17,560	863	2,322	-	4,485	-	8,740	-	1,150	-
DRUG ENFORCEMENT ADMINISTRATION	600	200	400	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	1,057	57	-	-	300	-	-	-	700	-
IMMIGRATION & NATURALIZATION SVC	228	56	172	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	1,000	100	500	-	300	-	100	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	14,675	450	1,250	-	3,885	-	8,640	-	450	-
DEPARTMENT OF LABOR, TOTAL	29,359	7,539	13,463	-	4,869	-	3,468	-	20	-
BUREAU OF LABOR STATISTICS	879	879	-	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	4,900	1,400	2,600	-	500	-	400	-	-	-
EMPLOYMENT & TRAINING ADMIN	11,164	2,458	2,537	-	3,701	-	2,448	-	20	-
LABOR-MANAGEMENT SERVICES ADMIN	3,055	1,409	358	-	668	-	620	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	8,300	332	7,968	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	1,061	1,061	-	-	-	-	-	-	-	-

CONTINUED ON NEXT PAGE

TABLE C-12. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF STATE, TOTAL	1,327	747	626	40	259	20	85	50	-	-
DEPARTMENTAL FUNDS	1,327	747	626	40	259	20	85	50	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	91,590	37,377	39,463	-	8,173	-	3,069	-	3,508	-
COAST GUARD	17,000	10,400	6,200	-	400	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	9,000	1,980	7,020	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,700	1,273	1,959	-	-	-	1,322	-	146	-
FEDERAL RAILROAD ADMINISTRATION	7,000	5,446	1,554	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	37,300	11,413	19,230	-	2,598	-	1,747	-	2,312	-
OFFICE OF THE SECRETARY	740	240	500	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	6,400	4,225	200	-	1,975	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	9,450	2,400	2,800	-	3,200	-	-	-	1,050	-
DEPARTMENT OF THE TREASURY, TOTAL	7,618	5,101	2,401	-	-	-	116	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,810	1,508	302	-	-	-	-	-	-	-
CUSTOMS SERVICE	100	100	-	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	5,708	3,493	2,099	-	-	-	116	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,028	2,028	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	300	50	150	-	-	-	-	-	100	-
CONSUMER PRODUCT SAFETY COMMISSION	2,100	210	1,827	-	63	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	215,200	87,235	58,251	-	36,560	-	19,680	-	12,174	1,300
FEDERAL COMMUNICATIONS COMMISSION	1,925	1,655	270	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	15,418	5,807	4,041	-	2,025	-	2,755	191	599	-
FEDERAL HOME LOAN BANK BOARD	1,321	1,276	-	-	45	-	-	-	-	-
FEDERAL TRADE COMMISSION	4,375	4,375	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	134	100	-	-	-	-	34	-	-	-
INTERNATIONAL COMMUNICATION AGENCY	138	14	124	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	98,508	8,170	2,300	-	34,033	-	2,330	280	-	51,395
AGENCY FOR INTERNAT'L DEVELOPMENT	98,508	8,170	2,300	-	34,033	-	2,330	280	-	51,395
INTERSTATE COMMERCE COMMISSION	150	150	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	600	600	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,653,948	777,985	638,107	-	164,000	45,843	25,020	350	517	2,125
NATIONAL SCIENCE FOUNDATION	999,900	82,109	25,605	1,834	779,259	69,139	38,835	360	1,460	1,299
NUCLEAR REGULATORY COMMISSION	224,540	18,744	6,736	141,460	6,900	32,330	2,565	14,615	210	980
OFFICE OF PERSONNEL MANAGEMENT	2,627	2,552	75	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	50,489	45,989	-	-	-	-	-	-	-	4,500
TENNESSEE VALLEY AUTHORITY	20,700	13,800	-	-	-	-	6,900	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	2,150	946	516	-	107	307	274	-	-	-
US INTERNATIONAL TRADE COMMISSION	3,926	3,926	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	136,900	136,570	-	-	330	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-13. FEDERAL OBLIGATIONS FOR RESEARCH, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1980, 1981, AND 1982

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1980	ESTIMATES	
		1981	1982
TOTAL, ALL FIELDS	11,597,378	12,359,294	13,533,823
LIFE SCIENCES, TOTAL	4,192,335	4,435,942	4,714,349
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	1,830,611	1,951,562	2,102,288
ENVIRONMENTAL BIOLOGY	229,741	248,698	254,188
AGRICULTURAL	447,206	488,926	526,362
MEDICAL	1,536,888	1,599,879	1,684,463
LIFE SCIENCES, NEC	147,889	146,877	147,048
PSYCHOLOGY, TOTAL	199,009	205,965	228,217
BIOLOGICAL ASPECTS	59,882	61,099	62,727
SOCIAL ASPECTS	94,805	91,314	102,608
PSYCHOLOGICAL SCIENCES, NEC	44,322	53,552	62,882
PHYSICAL SCIENCES, TOTAL	2,000,612	2,233,827	2,644,129
ASTRONOMY	285,671	258,036	296,427
CHEMISTRY	454,536	513,187	570,253
PHYSICS	1,182,546	1,373,265	1,657,825
PHYSICAL SCIENCES, NEC	77,859	89,339	119,624
ENVIRONMENTAL SCIENCES, TOTAL	1,260,957	1,275,711	1,376,966
ATMOSPHERIC	409,513	395,239	436,369
GEOLOGICAL	401,755	432,896	473,841
OCEANOGRAPHY	262,124	260,058	274,419
ENVIRONMENTAL SCIENCES, NEC	187,565	187,518	192,337
MATHEMATICS & COMPUTER SCIENCES, TOTAL	240,943	284,056	321,781
MATHEMATICS	90,926	102,942	120,409
COMPUTER SCIENCES	128,593	145,806	153,405
MATHEMATICS & COMPUTER SCIENCES, NEC	21,424	35,308	47,967
ENGINEERING, TOTAL	2,830,131	3,027,107	3,375,822
AERONAUTICAL	708,134	710,747	759,455
ASTRONAUTICAL	302,325	298,848	315,631
CHEMICAL	96,335	160,916	145,020
CIVIL	158,781	147,060	152,162
ELECTRICAL	517,142	576,252	711,469
MECHANICAL	207,978	200,047	227,377
METALLURGY & MATERIALS	236,184	263,597	339,584
ENGINEERING, NEC	603,252	669,640	725,124
SOCIAL SCIENCES, TOTAL	523,811	517,328	485,227
ANTHROPOLOGY	17,179	16,301	18,596
ECONOMICS	192,771	201,759	190,692
POLITICAL SCIENCE	12,170	10,401	5,846
SOCIOLOGY	71,435	69,985	61,111
SOCIAL SCIENCES, NEC	230,256	218,983	208,982
OTHER SCIENCES, NEC	349,580	379,358	387,332

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-14. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	11,597,378	4,192,335	199,009	2,000,612	1,260,957	240,943	2,830,131	523,811	349,590
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	657,435	457,817	106	52,633	13,772	2,751	46,627	83,729	-
AGRICULTURAL COOPERATIVE SVC	1,634	-	-	-	-	-	-	1,634	-
AGRICULTURAL MARKETING SERVICE	1,000	1,000	-	-	-	-	-	-	-
ECONOMICS & STATISTICS SERVICE	31,051	-	-	-	-	245	-	30,806	-
FOREST SERVICE	106,055	67,225	106	4,416	10,421	1,335	12,317	10,235	-
OFF OF INTERNAT'L COOPERATION & DEV	4,939	4,939	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	512,756	384,653	-	48,217	3,351	1,171	34,310	41,054	-
AGRICULTURAL RESEARCH	328,551	253,229	-	39,782	2,295	1,171	28,527	3,547	-
AGRICULTURAL COOPERATIVE RESEARCH	184,205	131,424	-	8,435	1,056	-	5,783	37,507	-
DEPARTMENT OF COMMERCE, TOTAL	254,433	53,592	223	38,698	105,590	8,990	40,572	6,735	33
BUREAU OF THE CENSUS	1,949	-	223	-	-	1,339	-	353	33
ECONOMIC DEVELOPMENT ADMINISTRATION	2,500	-	-	-	-	-	-	2,500	-
MARITIME ADMINISTRATION	12,136	-	-	-	-	844	10,744	548	-
NATIONAL BUREAU OF STANDARDS	58,893	-	-	32,301	427	5,456	18,933	1,776	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	168,810	53,592	-	5,876	105,163	1,351	2,473	355	-
NAT'L TELECOMM & INFORMATION ADMIN	9,625	-	-	-	-	-	8,422	1,203	-
OFFICE OF THE SECRETARY	521	-	-	521	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	2,261,769	149,075	63,552	410,530	181,847	137,828	1,165,226	5,120	148,591
DEPARTMENT OF THE ARMY	479,255	76,886	24,930	100,294	25,474	14,155	231,302	704	5,510
DEPARTMENT OF THE NAVY	611,100	24,651	10,907	130,978	73,985	54,445	314,248	1,886	-
DEPARTMENT OF THE AIR FORCE	537,300	36,088	21,405	66,288	38,486	30,698	343,466	-	869
DEFENSE AGENCIES	634,114	11,450	6,310	112,970	43,902	38,530	276,210	2,530	142,212
DEPARTMENT OF EDUCATION, TOTAL	97,575	15,305	2,052	-	-	-	5,906	52,044	12,268
DEPARTMENT OF ENERGY	1,277,326	146,069	-	792,100	117,392	11,644	193,120	2,269	14,732
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,332,777	2,786,996	101,566	79,781	-	8,989	43,179	181,438	130,829
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	233,536	124,808	70,446	1,467	-	551	85	31,912	4,267
CENTERS FOR DISEASE CONTROL	87,257	87,257	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	75,400	75,400	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	45,727	-	-	-	-	-	-	45,727	-
HEALTH RESOURCES ADMINISTRATION	5,140	-	-	-	-	-	-	-	5,140
HEALTH SERVICES ADMINISTRATION	8,023	7,723	-	-	-	-	-	-	300
NATIONAL INSTITUTES OF HEALTH	2,787,470	2,491,808	31,120	78,314	-	8,438	43,094	13,575	121,121
OFFICE OF ASST'T SECY FOR HEALTH	25,706	-	-	-	-	-	-	25,706	-
OFF OF HUMAN DEVELOPMENT SERVICES	19,131	-	-	-	-	-	-	19,131	-
OFFICE OF THE SECRETARY	24,000	-	-	-	-	-	-	24,000	-
SOCIAL SECURITY ADMINISTRATION	21,387	-	-	-	-	-	-	21,387	-
DEPT OF HOUSING & URBAN DEVELOPMENT	19,601	-	-	-	-	-	1,922	17,679	-
DEPARTMENT OF THE INTERIOR, TOTAL	354,446	85,789	462	13,924	159,954	9,130	79,140	5,808	1,239
BUREAU OF LAND MANAGEMENT	1,323	1,148	-	-	100	-	-	75	-
BUREAU OF MINES	82,800	-	-	5,250	13,350	4,800	59,400	-	-
GEOLOGICAL SURVEY	145,839	-	-	6,233	127,994	2,739	8,873	-	-
NATIONAL PARK SERVICE	8,243	4,444	-	400	997	-	18	2,384	-
OFFICE OF THE SECRETARY	2,233	-	-	-	1,185	349	-	699	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	7,471	1,073	139	705	1,155	85	4,102	212	-
OFFICE OF WATER RSCH & TECHNOLOGY	18,400	3,488	323	1,336	5,199	157	4,615	2,283	999
US FISH & WILDLIFE SERVICE	75,226	75,226	-	-	-	-	-	-	-
WATER AND POWER RESOURCES SERVICE	12,911	410	-	-	9,974	-	2,132	155	240
DEPARTMENT OF JUSTICE, TOTAL	28,760	100	2,923	-	395	100	751	24,491	-
DRUG ENFORCEMENT ADMINISTRATION	800	-	100	-	-	100	600	-	-
FEDERAL PRISON SYSTEM	857	-	-	-	-	-	-	857	-
IMMIGRATION & NATURALIZATION SVC	151	-	-	-	-	-	151	-	-
OFFICE OF THE ATTORNEY GENERAL	1,320	-	-	-	-	-	-	1,320	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	25,632	100	2,823	-	395	-	-	22,314	-
DEPARTMENT OF LABOR, TOTAL	36,432	-	192	-	-	-	-	36,240	-
BUREAU OF LABOR STATISTICS	925	-	-	-	-	-	-	925	-
EMPLOYMENT STANDARDS ADMINISTRATION	4,900	-	-	-	-	-	-	4,900	-
EMPLOYMENT & TRAINING ADMIN	20,124	-	192	-	-	-	-	19,932	-
LABOR-MANAGEMENT SERVICES ADMIN	2,819	-	-	-	-	-	-	2,819	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	6,300	-	-	-	-	-	-	6,300	-
OFFICE OF THE SECRETARY	1,364	-	-	-	-	-	-	1,364	-
DEPARTMENT OF STATE, TOTAL	1,956	41	-	70	195	-	-	1,544	106
DEPARTMENTAL FUNDS	1,956	41	-	70	195	-	-	1,544	106

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TABLE C-14. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	82,445	7,030	-	1,200	1,049	1,344	52,777	17,846	1,200
COAST GUARD	8,100	-	-	1,200	1,000	-	4,600	100	1,200
FEDERAL AVIATION ADMINISTRATION	8,200	-	-	-	-	-	8,200	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,600	270	-	-	-	90	3,743	497	-
FEDERAL RAILROAD ADMINISTRATION	7,900	-	-	-	-	31	7,858	11	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	38,615	6,760	-	-	-	-	15,573	16,282	-
OFFICE OF THE SECRETARY	640	-	-	-	-	-	320	320	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	5,500	-	-	-	49	1,223	3,593	636	-
URBAN MASS TRANSPORTATION ADMIN	8,890	-	-	-	-	-	8,890	-	-
DEPARTMENT OF THE TREASURY, TOTAL	5,687	-	-	1,450	-	1,655	-	1,801	781
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	346	-	-	50	-	-	-	-	296
BUREAU OF ENGRAVING AND PRINTING ...	1,300	-	-	1,300	-	-	-	-	-
CUSTOMS SERVICE	100	-	-	100	-	-	-	-	-
INTERNAL REVENUE SERVICE	3,941	-	-	-	-	1,655	-	1,801	485
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,219	-	-	-	-	-	-	2,219	-
APPALACHIAN REGIONAL COMMISSION	600	-	-	-	-	-	-	600	-
COMMUNITY SERVICES ADMINISTRATION	1,250	-	-	-	-	-	-	1,250	-
CONSUMER PRODUCT SAFETY COMMISSION ...	1,600	1,421	-	-	-	-	179	-	-
ENVIRONMENTAL PROTECTION AGENCY	245,100	78,024	-	71,542	7,504	1,038	85,253	1,739	-
FEDERAL COMMUNICATIONS COMMISSION	3,420	-	-	-	-	82	1,553	1,741	44
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	9,330	670	297	3,446	357	371	2,905	960	324
FEDERAL HOME LOAN BANK BOARD	1,227	-	-	-	-	-	-	1,227	-
FEDERAL TRADE COMMISSION	3,021	-	-	-	-	-	-	3,021	-
GENERAL SERVICES ADMINISTRATION	105	-	-	-	-	72	33	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	83	-	-	-	-	-	83	-	-
INTERNAT'L DEV COOPERATION AGENCY	79,664	63,971	-	-	-	587	6,491	8,615	-
AGENCY FOR INTERNAT'L DEVELOPMENT ..	79,664	63,971	-	-	-	587	6,491	8,615	-
INTERSTATE COMMERCE COMMISSION	143	-	-	-	-	50	-	93	-
LIBRARY OF CONGRESS	600	-	-	-	-	-	-	-	600
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,609,644	67,447	1,972	321,272	413,444	3,755	799,628	217	1,939
NATIONAL SCIENCE FOUNDATION	873,687	156,851	13,496	203,256	256,244	52,678	106,796	47,491	35,875
NUCLEAR REGULATORY COMMISSION	182,672	-	-	-	-	-	182,672	-	-
OFFICE OF PERSONNEL MANAGEMENT	2,601	-	2,301	-	-	-	-	300	-
SMITHSONIAN INSTITUTION	41,006	15,744	-	7,596	3,053	-	-	14,613	-
TENNESSEE VALLEY AUTHORITY	15,800	3,400	-	3,100	-	-	8,900	400	-
US ARMS CONTROL & DISARMAMENT AGENCY .	2,996	-	-	14	162	879	1,378	513	50
US INTERNATIONAL TRADE COMMISSION	2,068	-	-	-	-	-	-	2,068	-
VETERANS ADMINISTRATION	117,900	102,993	9,867	-	-	-	5,040	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-15. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	12,359,294	4,435,942	205,965	2,233,927	1,275,711	284,056	3,027,107	517,328	379,353
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	738,694	513,616	117	59,933	15,069	3,054	51,880	95,025	-
AGRICULTURAL COOPERATIVE SVC	2,469	-	-	-	-	-	-	2,469	-
AGRICULTURAL MARKETING SERVICE	1,141	1,141	-	-	-	-	-	-	-
ECONOMICS & STATISTICS SERVICE	36,585	-	-	-	-	280	-	36,305	-
FOREST SERVICE	116,200	73,654	117	4,835	11,420	1,462	13,495	11,217	-
OFF OF INTERNAT'L COOPERATION & DEV	5,382	5,382	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION .	576,917	433,439	-	55,098	3,649	1,312	38,385	45,034	-
AGRICULTURAL RESEARCH	376,020	290,388	-	45,855	2,492	1,312	32,047	3,926	-
AGRICULTURAL COOPERATIVE RESEARCH	200,897	143,051	-	9,243	1,157	-	6,338	41,108	-
DEPARTMENT OF COMMERCE, TOTAL	257,383	61,660	262	42,272	89,774	9,944	46,219	7,212	40
BUREAU OF THE CENSUS	2,304	-	262	-	-	1,580	-	422	40
ECONOMIC DEVELOPMENT ADMINISTRATION	1,800	-	-	-	-	-	-	1,800	-
MARITIME ADMINISTRATION	9,866	-	-	-	-	600	8,766	500	-
NATIONAL BUREAU OF STANDARDS	65,134	-	-	36,460	528	6,337	21,056	753	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	168,033	61,660	-	5,755	89,246	1,427	7,232	2,713	-
NAT'L TELECOMM & INFORMATION ADMIN .	10,189	-	-	-	-	-	9,165	1,024	-
OFFICE OF THE SECRETARY	57	-	-	57	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	2,584,004	171,588	67,965	506,634	182,907	175,390	1,310,764	5,265	163,491
DEPARTMENT OF THE ARMY	513,815	92,534	24,604	103,103	21,944	15,344	250,475	895	4,916
DEPARTMENT OF THE NAVY	701,500	25,369	13,628	182,607	75,869	65,688	335,398	2,941	-
DEPARTMENT OF THE AIR FORCE	508,200	41,296	23,890	76,548	41,445	35,594	288,550	-	877
DEFENSE AGENCIES	760,489	12,389	5,843	144,376	43,649	58,764	336,341	1,429	157,698
DEPARTMENT OF EDUCATION, TOTAL	87,312	14,935	2,157	-	-	-	5,441	52,262	12,517
DEPARTMENT OF ENERGY	1,407,444	149,736	-	902,579	122,910	13,033	200,824	2,602	15,760
DEPT OF HLTH & HUMAN SERVICES, TOTAL .	3,470,465	2,915,620	99,519	83,775	-	9,299	45,493	180,649	136,111
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	233,677	130,112	66,685	1,297	-	483	82	30,871	4,142
CENTERS FOR DISEASE CONTROL	80,844	80,844	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	74,900	74,900	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	46,000	-	-	-	-	-	-	46,000	-
HEALTH RESOURCES ADMINISTRATION	5,155	-	-	-	-	-	-	-	5,155
HEALTH SERVICES ADMINISTRATION	6,129	5,829	-	-	-	-	-	-	300
NATIONAL INSTITUTES OF HEALTH	2,934,290	2,623,935	32,834	82,478	-	8,811	45,411	14,307	126,514
OFFICE OF ASST'T SECY FOR HEALTH ...	30,920	-	-	-	-	-	-	30,920	-
OFF OF HUMAN DEVELOPMENT SERVICES ..	16,303	-	-	-	-	-	-	16,303	-
OFFICE OF THE SECRETARY	22,000	-	-	-	-	-	-	22,000	-
SOCIAL SECURITY ADMINISTRATION	20,248	-	-	-	-	-	-	20,248	-
DEPT OF HOUSING & URBAN DEVELOPMENT ..	19,054	-	-	-	-	-	1,416	17,638	-
DEPARTMENT OF THE INTERIOR, TOTAL	364,351	89,303	122	15,022	172,931	8,430	74,456	4,659	429
BUREAU OF LAND MANAGEMENT	1,458	1,248	-	-	135	-	-	75	-
BUREAU OF MINES	79,500	-	-	5,525	12,925	4,700	56,450	-	-
GEOLOGICAL SURVEY	164,266	-	-	8,054	143,832	3,401	8,979	-	-
NATIONAL PARK SERVICE	10,025	5,762	-	400	1,439	-	24	2,400	-
OFFICE OF THE SECRETARY	3,928	-	-	-	3,095	278	-	555	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	6,290	1,180	-	505	850	-	3,165	590	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	6,988	1,376	122	539	2,029	51	1,813	868	189
US FISH & WILDLIFE SERVICE	78,285	78,285	-	-	-	-	-	-	-
WATER AND POWER RESOURCES SERVICE ..	13,611	450	-	-	8,726	-	4,025	170	240
DEPARTMENT OF JUSTICE, TOTAL	23,397	-	3,187	-	700	50	1,116	18,344	-
DRUG ENFORCEMENT ADMINISTRATION	700	-	50	-	-	50	600	-	-
FEDERAL PRISON SYSTEM	1,057	-	-	-	-	-	-	1,057	-
IMMIGRATION & NATURALIZATION SVC ...	516	-	-	-	-	-	516	-	-
OFFICE OF THE ATTORNEY GENERAL	1,500	-	-	-	-	-	-	1,500	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	19,624	-	3,137	-	700	-	-	15,787	-
DEPARTMENT OF LABOR, TOTAL	36,435	-	30	-	-	-	-	36,405	-
BUREAU OF LABOR STATISTICS	838	-	-	-	-	-	-	838	-
EMPLOYMENT STANDARDS ADMINISTRATION	5,900	-	-	-	-	-	-	5,900	-
EMPLOYMENT & TRAINING ADMIN	17,630	-	30	-	-	-	-	17,600	-
LABOR-MANAGEMENT SERVICES ADMIN	3,055	-	-	-	-	-	-	3,055	-
OCCUPATIONAL SAFETY & HEALTH ADMIN .	8,000	-	-	-	-	-	-	8,000	-
OFFICE OF THE SECRETARY	1,012	-	-	-	-	-	-	1,012	-
DEPARTMENT OF STATE, TOTAL	1,727	25	-	65	158	-	-	1,479	-
DEPARTMENTAL FUNDS	1,727	25	-	65	158	-	-	1,479	-

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TABLE C-15. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	91,641	6,913	-	1,500	500	909	55,106	18,910	7,803
COAST GUARD	15,800	-	-	1,500	500	-	6,000	100	7,700
FEDERAL AVIATION ADMINISTRATION	9,500	-	-	-	-	-	9,500	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,700	196	-	-	-	92	4,015	294	103
FEDERAL RAILROAD ADMINISTRATION	8,400	-	-	-	-	31	8,358	11	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	38,369	6,717	-	-	-	-	15,474	16,178	-
OFFICE OF THE SECRETARY	740	-	-	-	-	-	400	340	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	5,600	-	-	-	-	786	2,827	1,987	-
URBAN MASS TRANSPORTATION ADMIN	8,532	-	-	-	-	-	8,532	-	-
DEPARTMENT OF THE TREASURY, TOTAL	6,629	-	-	2,012	-	1,097	-	2,339	1,181
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	100	-	-	50	-	-	-	-	50
BUREAU OF ENGRAVING AND PRINTING ...	1,862	-	-	1,862	-	-	-	-	-
CUSTOMS SERVICE	100	-	-	100	-	-	-	-	-
INTERNAL REVENUE SERVICE	4,567	-	-	-	-	1,097	-	2,339	1,131
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,827	-	-	-	-	-	-	1,827	-
APPALACHIAN REGIONAL COMMISSION	280	-	-	-	-	-	-	280	-
COMMUNITY SERVICES ADMINISTRATION	1,000	-	-	-	-	-	-	1,000	-
CONSUMER PRODUCT SAFETY COMMISSION ...	2,700	1,684	-	-	-	-	1,016	-	-
ENVIRONMENTAL PROTECTION AGENCY	259,900	78,210	-	82,959	6,099	300	91,010	1,323	-
FEDERAL COMMUNICATIONS COMMISSION	2,690	-	-	-	-	7	1,620	1,058	5
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	12,624	886	442	3,978	532	553	4,324	1,427	482
FEDERAL HOME LOAN BANK BOARD	1,150	-	-	-	-	-	-	1,150	-
FEDERAL TRADE COMMISSION	4,166	-	-	-	-	-	-	4,166	-
GENERAL SERVICES ADMINISTRATION	373	-	-	-	-	250	123	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	220	-	-	-	-	-	220	-	-
INTERNAT'L DEV COOPERATION AGENCY	87,160	77,256	-	-	-	700	6,204	3,000	-
AGENCY FOR INTERNAT'L DEVELOPMENT ..	87,160	77,256	-	-	-	700	6,204	3,000	-
INTERSTATE COMMERCE COMMISSION	175	-	-	-	-	50	-	125	-
LIBRARY OF CONGRESS	600	-	-	-	-	-	-	-	600
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,554,566	58,308	1,878	295,801	404,926	4,515	786,838	250	2,050
NATIONAL SCIENCE FOUNDATION	933,404	167,516	11,745	225,817	275,874	56,300	119,231	39,082	37,839
NUCLEAR REGULATORY COMMISSION	207,673	-	-	-	-	-	207,673	-	-
OFFICE OF PERSONNEL MANAGEMENT	4,027	-	3,127	-	-	-	-	900	-
SMITHSONIAN INSTITUTION	45,188	17,788	-	8,280	3,332	-	-	15,788	-
TENNESSEE VALLEY AUTHORITY	17,800	3,000	-	3,200	-	-	11,500	100	-
US ARMS CONTROL & DISARMAMENT AGENCY .	1,050	10	-	-	-	175	735	80	50
US INTERNATIONAL TRADE COMMISSION	2,984	-	-	-	-	-	-	2,984	-
VETERANS ADMINISTRATION	129,200	109,888	15,414	-	-	-	3,898	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-16. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	13,533,823	4,714,349	228,217	2,644,129	1,376,966	321,781	3,375,822	485,227	387,332
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	325,731	577,830	127	66,332	16,596	3,359	57,363	104,124	-
AGRICULTURAL COOPERATIVE SVC	2,514	-	-	-	-	-	-	2,514	-
AGRICULTURAL MARKETING SERVICE	1,169	1,169	-	-	-	-	-	-	-
ECONOMICS & STATISTICS SERVICE	38,969	-	-	-	-	303	-	38,665	-
FOREST SERVICE	127,600	80,879	127	5,310	12,541	1,606	14,819	12,318	-
OFF OF INTERNAT'L COOPERATION & DEV	6,194	6,194	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	649,286	489,588	-	61,022	4,055	1,450	42,544	50,627	-
AGRICULTURAL RESEARCH	415,099	320,534	-	50,614	2,752	1,450	35,407	4,341	-
AGRICULTURAL COOPERATIVE RESEARCH	234,188	169,054	-	10,408	1,303	-	7,137	46,286	-
DEPARTMENT OF COMMERCE, TOTAL	228,686	44,924	261	45,600	77,439	11,582	45,807	3,034	40
BUREAU OF THE CENSUS	2,300	-	261	-	-	1,578	-	421	40
MARITIME ADMINISTRATION	8,810	-	-	-	-	500	8,110	200	-
NATIONAL BUREAU OF STANDARDS	75,510	-	-	39,221	542	7,894	27,078	775	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	132,706	44,924	-	6,379	76,896	1,610	2,719	178	-
NAT'L TELECOMM & INFORMATION ADMIN	9,360	-	-	-	-	-	7,900	1,460	-
DEPARTMENT OF DEFENSE, TOTAL	3,148,166	196,841	87,864	671,814	229,119	194,969	1,576,278	5,119	186,152
DEPARTMENT OF THE ARMY	639,540	104,299	32,463	133,721	28,146	17,688	317,076	1,085	5,062
DEPARTMENT OF THE NAVY	808,400	26,910	19,317	223,543	88,427	71,141	376,963	2,099	-
DEPARTMENT OF THE AIR FORCE	667,300	50,025	28,581	84,527	48,435	38,153	416,499	-	1,080
DEFENSE AGENCIES	1,032,926	15,607	7,503	230,023	64,111	67,987	465,740	1,935	180,020
DEPARTMENT OF EDUCATION, TOTAL	53,113	1,075	350	-	-	-	85	38,866	12,737
DEPARTMENT OF ENERGY	1,620,816	152,128	-	1,068,542	121,241	15,329	241,077	3,144	19,355
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,698,725	3,119,623	109,044	90,333	-	9,969	48,903	179,738	141,115
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	259,954	146,343	73,735	1,602	-	502	84	32,417	5,271
CENTERS FOR DISEASE CONTROL	77,085	77,085	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	75,400	75,400	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	46,000	-	-	-	-	-	-	46,000	-
HEALTH SERVICES ADMINISTRATION	300	-	-	-	-	-	-	-	300
NATIONAL INSTITUTES OF HEALTH	3,154,050	2,820,795	35,309	88,731	-	9,467	48,819	15,385	135,544
OFFICE OF ASST'T SECY FOR HEALTH	18,309	-	-	-	-	-	-	18,309	-
OFF OF HUMAN DEVELOPMENT SERVICES	22,607	-	-	-	-	-	-	22,607	-
OFFICE OF THE SECRETARY	16,700	-	-	-	-	-	-	16,700	-
SOCIAL SECURITY ADMINISTRATION	28,320	-	-	-	-	-	-	28,320	-
DEPT OF HOUSING & URBAN DEVELOPMENT	20,412	-	-	-	-	-	1,222	19,190	-
DEPARTMENT OF THE INTERIOR, TOTAL	352,843	83,377	-	15,794	170,962	7,756	71,160	3,694	100
BUREAU OF LAND MANAGEMENT	1,580	1,280	-	-	300	-	-	-	-
BUREAU OF MINES	77,500	-	-	6,850	8,000	3,750	58,900	-	-
GEOLOGICAL SURVEY	174,899	-	-	8,144	154,734	3,764	8,257	-	-
NATIONAL PARK SERVICE	13,371	7,087	-	800	2,334	-	-	3,150	-
OFFICE OF THE SECRETARY	968	-	-	-	242	242	-	494	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,170	200	-	-	450	-	520	-	-
US FISH & WILDLIFE SERVICE	74,460	74,460	-	-	-	-	-	-	-
WATER AND POWER RESOURCES SERVICE	8,895	350	-	-	4,902	-	3,483	60	100
DEPARTMENT OF JUSTICE, TOTAL	17,560	275	1,000	50	225	-	728	15,282	-
DRUG ENFORCEMENT ADMINISTRATION	600	-	50	50	-	-	500	-	-
FEDERAL PRISON SYSTEM	1,057	-	-	-	-	-	-	1,057	-
IMMIGRATION & NATURALIZATION SVC	228	-	-	-	-	-	228	-	-
OFFICE OF THE ATTORNEY GENERAL	1,000	-	-	-	-	-	-	1,000	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	14,675	275	950	-	225	-	-	13,225	-
DEPARTMENT OF LABOR, TOTAL	29,359	-	22	-	-	-	-	29,337	-
BUREAU OF LABOR STATISTICS	879	-	-	-	-	-	-	879	-
EMPLOYMENT STANDARDS ADMINISTRATION	4,900	-	-	-	-	-	-	4,900	-
EMPLOYMENT & TRAINING ADMIN	11,164	-	22	-	-	-	-	11,142	-
LABOR-MANAGEMENT SERVICES ADMIN	3,055	-	-	-	-	-	-	3,055	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	8,300	-	-	-	-	-	-	8,300	-
OFFICE OF THE SECRETARY	1,061	-	-	-	-	-	-	1,061	-
DEPARTMENT OF STATE, TOTAL	1,827	25	-	65	178	-	-	1,559	-
DEPARTMENTAL FUNDS	1,827	25	-	65	178	-	-	1,559	-

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TABLE C-16. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	91,590	6,726	-	1,000	500	1,105	57,792	18,964	5,503
COAST GUARD	17,000	-	-	1,000	500	-	10,000	100	5,400
FEDERAL AVIATION ADMINISTRATION	9,000	-	-	-	-	-	9,000	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,700	196	-	-	-	92	4,015	294	103
FEDERAL RAILROAD ADMINISTRATION	7,000	-	-	-	-	26	6,965	9	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	37,300	6,530	-	-	-	-	15,042	15,728	-
OFFICE OF THE SECRETARY	740	-	-	-	-	-	400	340	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	6,400	-	-	-	-	987	2,920	2,493	-
URBAN MASS TRANSPORTATION ADMIN	9,450	-	-	-	-	-	9,450	-	-
DEPARTMENT OF THE TREASURY, TOTAL	7,618	-	-	1,910	-	2,062	-	2,445	1,201
BUREAU OF ENGRAVING AND PRINTING ...	1,810	-	-	1,810	-	-	-	-	-
CUSTOMS SERVICE	100	-	-	100	-	-	-	-	-
INTERNAL REVENUE SERVICE	5,708	-	-	-	-	2,062	-	2,445	1,201
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,028	-	-	-	-	-	-	2,028	-
APPALACHIAN REGIONAL COMMISSION	300	-	-	-	-	-	-	300	-
CONSUMER PRODUCT SAFETY COMMISSION ...	2,100	1,310	-	-	-	-	790	-	-
ENVIRONMENTAL PROTECTION AGENCY	215,200	66,407	-	70,152	4,767	-	72,664	1,210	-
FEDERAL COMMUNICATIONS COMMISSION	1,925	-	-	-	-	7	1,084	830	4
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	15,418	1,068	2,999	1,979	681	707	5,537	1,829	618
FEDERAL HOME LOAN BANK BOARD	1,321	-	-	-	-	-	-	1,321	-
FEDERAL TRADE COMMISSION	4,375	-	-	-	-	-	-	4,375	-
GENERAL SERVICES ADMINISTRATION	134	-	-	-	-	-	134	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	138	-	-	-	-	-	138	-	-
INTERNAT'L DEV COOPERATION AGENCY	98,508	82,546	-	-	-	900	12,560	2,500	-
AGENCY FOR INTERNAT'L DEVELOPMENT ..	98,508	82,548	-	-	-	900	12,560	2,500	-
INTERSTATE COMMERCE COMMISSION	150	-	-	-	-	50	-	100	-
LIBRARY OF CONGRESS	600	-	-	-	-	-	-	-	600
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,653,948	60,482	1,993	337,444	448,101	6,862	796,616	300	2,150
NATIONAL SCIENCE FOUNDATION	999,900	179,009	7,630	261,002	303,400	66,912	141,318	22,882	17,747
NUCLEAR REGULATORY COMMISSION	224,540	-	-	-	-	-	224,540	-	-
OFFICE OF PERSONNEL MANAGEMENT	2,627	-	2,627	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	50,489	19,501	-	8,535	3,559	-	-	18,895	-
TENNESSEE VALLEY AUTHORITY	20,700	3,400	-	3,300	-	-	13,900	100	-
US ARMS CONTROL & DISARMAMENT AGENCY .	2,150	-	-	277	200	212	1,326	135	-
US INTERNATIONAL TRADE COMMISSION	3,926	-	-	-	-	-	-	3,926	-
VETERANS ADMINISTRATION	136,900	117,800	14,300	-	-	-	4,800	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-17. FEDERAL OBLIGATIONS FOR RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	199,009	59,882	94,805	44,322	4,192,335	1,830,611	229,741	447,206	1,536,988	147,899
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	106	-	106	-	457,817	61,784	67,759	320,261	8,013	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	1,000	-	-	1,000	-	-
FOREST SERVICE	106	-	106	-	67,225	23,137	44,088	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	4,939	-	-	4,939	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	384,653	38,647	23,671	314,322	8,013	-
AGRICULTURAL RESEARCH	-	-	-	-	253,229	23,939	23,671	205,241	379	-
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	131,424	14,709	-	109,081	7,634	-
DEPARTMENT OF COMMERCE, TOTAL	223	-	223	-	53,592	-	-	53,592	-	-
BUREAU OF THE CENSUS	223	-	223	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	53,592	-	-	53,592	-	-
DEPARTMENT OF DEFENSE, TOTAL	63,552	264	55,047	8,241	149,075	54,693	7,223	226	83,015	3,918
DEPARTMENT OF THE ARMY	24,930	168	23,078	1,684	76,886	4,812	1,676	226	70,122	50
DEPARTMENT OF THE NAVY	10,907	-	4,350	6,557	24,651	11,200	2,255	-	11,196	-
DEPARTMENT OF THE AIR FORCE	21,405	-	21,405	-	36,088	32,159	3,292	-	637	-
DEFENSE AGENCIES	6,310	96	6,214	-	11,450	6,522	-	-	1,060	3,868
DEPARTMENT OF EDUCATION, TOTAL	2,052	-	-	2,052	15,305	-	-	-	13,524	1,781
DEPARTMENT OF ENERGY	-	-	-	-	146,069	92,395	3,356	3,801	7,285	39,232
DEPT OF HLTH & HUMAN SERVICES, TOTAL	101,566	41,186	28,454	31,926	2,786,996	1,422,835	95	-	1,266,290	97,776
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	70,446	41,186	28,454	806	124,808	75,155	95	-	25,594	23,964
CENTERS FOR DISEASE CONTROL	-	-	-	-	87,257	-	-	-	87,257	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	75,400	66,352	-	-	9,048	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	7,723	-	-	-	7,723	-
NATIONAL INSTITUTES OF HEALTH	31,120	-	-	31,120	2,491,808	1,281,328	-	-	1,136,668	73,812
DEPARTMENT OF THE INTERIOR, TOTAL	462	-	323	139	85,739	43,459	40,756	1,387	105	32
BUREAU OF LAND MANAGEMENT	-	-	-	-	1,148	110	200	838	-	-
NATIONAL PARK SERVICE	-	-	-	-	4,444	-	4,444	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	139	-	-	139	1,073	-	524	549	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	323	-	323	-	3,438	3,301	-	-	105	32
US FISH & WILDLIFE SERVICE	-	-	-	-	75,226	39,638	35,588	-	-	-
WATER AND POWER RESOURCES SERVICE	-	-	-	-	410	410	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	2,923	-	1,564	1,359	100	-	-	-	100	-
DRUG ENFORCEMENT ADMINISTRATION	100	-	-	100	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	2,823	-	1,564	1,259	100	-	-	-	100	-
DEPARTMENT OF LABOR, TOTAL	192	-	192	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	192	-	192	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	41	-	-	41	-	-
DEPARTMENTAL FUNDS	-	-	-	-	41	-	-	41	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	7,030	6,760	-	-	-	270
FEDERAL HIGHWAY ADMINISTRATION	-	-	-	-	270	-	-	-	-	270
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	6,760	6,760	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	1,421	-	-	-	-	1,421
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	78,024	-	51,843	15,883	10,298	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	297	-	297	-	670	234	354	-	82	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	63,971	3,122	200	40,520	20,129	-
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	63,971	3,122	200	40,520	20,129	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,972	97	1,270	605	67,447	16,305	1,760	11,445	34,865	3,072
NATIONAL SCIENCE FOUNDATION	13,496	8,506	4,990	-	156,851	111,339	45,125	50	-	337
OFFICE OF PERSONNEL MANAGEMENT	2,301	-	2,301	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	15,744	5,474	10,270	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	3,400	2,400	1,000	-	-	-
VETERANS ADMINISTRATION	9,867	9,829	38	-	102,993	9,811	-	-	93,182	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-18. FEDERAL OBLIGATIONS FOR RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIOLOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHOLOGICAL SCIENCES NEC	TOTAL	BIOLOGICAL	ENVIRONMENTAL BIOLOGY	AGRICULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	205,965	61,099	91,314	53,552	4,435,942	1,951,562	248,698	488,926	1,599,879	146,877
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	117	-	117	-	513,616	68,944	75,286	360,591	8,795	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	1,141	-	-	1,141	-	-
FOREST SERVICE	117	-	117	-	73,654	25,340	48,314	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	5,382	-	-	5,382	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	433,439	43,604	26,972	354,068	8,795	-
AGRICULTURAL RESEARCH	-	-	-	-	290,388	27,667	26,972	235,321	428	-
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	143,051	15,937	-	118,747	8,367	-
DEPARTMENT OF COMMERCE, TOTAL	262	-	262	-	61,660	-	-	61,660	-	-
BUREAU OF THE CENSUS	262	-	262	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	61,660	-	-	61,660	-	-
DEPARTMENT OF DEFENSE, TOTAL	67,965	540	56,482	10,943	171,588	62,007	8,099	233	96,959	4,290
DEPARTMENT OF THE ARMY	24,604	160	22,757	1,687	92,534	4,964	2,420	233	84,870	47
DEPARTMENT OF THE NAVY	13,628	-	5,733	7,895	25,369	13,208	2,151	-	10,010	-
DEPARTMENT OF THE AIR FORCE	23,890	-	23,890	-	41,296	37,079	3,528	-	689	-
DEFENSE AGENCIES	5,843	380	4,102	1,361	12,389	6,756	-	-	1,390	4,243
DEPARTMENT OF EDUCATION, TOTAL	2,157	-	-	2,157	14,935	-	-	-	13,320	1,615
DEPARTMENT OF ENERGY	-	-	-	-	148,736	96,793	2,895	3,210	6,429	39,409
DEPT OF HLTH & HUMAN SERVICES, TOTAL	99,519	37,270	24,022	38,227	2,915,620	1,497,889	-	-	1,321,583	96,148
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	66,685	37,270	24,022	5,393	130,112	77,836	-	-	28,957	23,319
CENTERS FOR DISEASE CONTROL	-	-	-	-	80,844	-	-	-	80,844	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	74,900	65,912	-	-	8,988	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	5,829	-	-	-	5,829	-
NATIONAL INSTITUTES OF HEALTH	32,834	-	-	32,834	2,623,935	1,354,141	-	-	1,196,965	72,829
DEPARTMENT OF THE INTERIOR, TOTAL	122	-	122	-	88,303	59,214	27,579	1,440	40	30
BUREAU OF LAND MANAGEMENT	-	-	-	-	1,248	120	200	928	-	-
NATIONAL PARK SERVICE	-	-	-	-	5,762	-	5,762	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	1,180	-	668	512	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	122	-	122	-	1,378	1,308	-	-	40	30
US FISH & WILDLIFE SERVICE	-	-	-	-	78,285	57,336	20,949	-	-	-
WATER AND POWER RESOURCES SERVICE	-	-	-	-	450	450	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	3,137	-	1,637	1,550	-	-	-	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	50	-	-	50	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	3,137	-	1,637	1,500	-	-	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	30	-	30	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	30	-	30	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	25	-	-	25	-	-
DEPARTMENTAL FUNDS	-	-	-	-	25	-	-	25	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	6,913	6,717	-	-	-	196
FEDERAL HIGHWAY ADMINISTRATION	-	-	-	-	196	-	-	-	-	196
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	6,717	6,717	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	1,684	-	-	-	-	1,684
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	78,210	-	74,498	-	3,712	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	442	-	442	-	886	764	-	-	122	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	77,256	2,075	225	47,987	26,969	-
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	77,256	2,075	225	47,987	26,969	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,878	100	1,103	675	58,308	16,105	1,475	13,680	23,798	3,250
NATIONAL SCIENCE FOUNDATION	11,745	7,820	3,925	-	167,516	120,165	46,996	100	-	255
OFFICE OF PERSONNEL MANAGEMENT	3,127	-	3,127	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	17,788	6,643	11,145	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	3,000	2,500	500	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	-	-	-	-	10	10	-	-	-	-
VETERANS ADMINISTRATION	15,414	15,369	45	-	109,888	11,736	-	-	98,152	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-19. FEDERAL OBLIGATIONS FOR RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIOLOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHOLOGICAL SCIENCES NEC	TOTAL	BIOLOGICAL	ENVIRONMENTAL BIOLOGY	AGRICULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	223,217	62,727	102,608	62,882	4,714,349	2,102,298	254,188	526,362	1,684,463	147,049
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	127	-	127	-	577,930	77,887	82,837	407,312	9,894	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	1,169	-	-	1,169	-	-
FOREST SERVICE	127	-	127	-	80,979	27,922	53,057	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	6,194	-	-	6,194	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	489,588	49,965	29,780	399,949	9,894	-
AGRICULTURAL RESEARCH	-	-	-	-	320,534	30,527	29,780	259,754	473	-
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	169,054	19,438	-	140,195	9,421	-
DEPARTMENT OF COMMERCE, TOTAL	261	-	261	-	44,924	-	-	44,924	-	-
BUREAU OF THE CENSUS	261	-	261	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	44,924	-	-	44,924	-	-
DEPARTMENT OF DEFENSE, TOTAL	87,864	408	72,161	15,295	196,841	74,466	10,271	257	106,354	5,493
DEPARTMENT OF THE ARMY	32,463	160	30,028	2,275	104,299	6,914	2,853	257	94,222	53
DEPARTMENT OF THE NAVY	19,317	-	7,417	11,900	26,910	15,282	1,993	-	9,635	-
DEPARTMENT OF THE AIR FORCE	28,581	-	28,581	-	50,025	43,793	5,425	-	807	-
DEFENSE AGENCIES	7,503	248	6,135	1,120	15,607	8,477	-	-	1,690	5,440
DEPARTMENT OF EDUCATION, TOTAL	350	-	-	350	1,075	-	-	-	1,075	-
DEPARTMENT OF ENERGY	-	-	-	-	152,128	101,587	1,000	3,390	7,914	38,337
DEPT OF HLTH & HUMAN SERVICES, TOTAL	109,044	41,921	25,518	41,605	3,119,623	1,611,133	-	-	1,410,703	97,787
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	73,735	41,921	25,518	6,296	146,343	89,292	-	-	34,974	22,077
CENTERS FOR DISEASE CONTROL	-	-	-	-	77,085	-	-	-	77,085	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	75,400	66,352	-	-	9,048	-
NATIONAL INSTITUTES OF HEALTH	35,309	-	-	35,309	2,820,795	1,455,489	-	-	1,289,596	75,710
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	83,377	52,040	30,297	1,040	-	-
BUREAU OF LAND MANAGEMENT	-	-	-	-	1,280	140	200	940	-	-
NATIONAL PARK SERVICE	-	-	-	-	7,087	-	7,087	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	200	-	100	100	-	-
US FISH & WILDLIFE SERVICE	-	-	-	-	74,460	51,550	22,910	-	-	-
WATER AND POWER RESOURCES SERVICE	-	-	-	-	350	350	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	1,000	-	-	1,000	275	-	-	-	275	-
DRUG ENFORCEMENT ADMINISTRATION	50	-	-	50	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	950	-	-	950	275	-	-	-	275	-
DEPARTMENT OF LABOR, TOTAL	22	-	-	22	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	22	-	-	22	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	25	-	-	25	-	-
DEPARTMENTAL FUNDS	-	-	-	-	25	-	-	25	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	6,726	6,530	-	-	-	196
FEDERAL HIGHWAY ADMINISTRATION	-	-	-	-	196	-	-	-	-	196
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	6,530	6,530	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	1,310	-	-	-	-	1,310
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	66,407	-	64,429	-	1,978	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,999	-	1,766	1,233	1,068	911	-	-	157	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	82,548	2,450	865	53,928	25,305	-
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	82,548	2,450	865	53,928	25,305	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,993	115	1,128	750	60,482	16,950	1,500	15,386	23,271	3,375
NATIONAL SCIENCE FOUNDATION	7,630	6,050	1,580	-	179,009	128,266	50,093	100	-	550
OFFICE OF PERSONNEL MANAGEMENT	2,627	-	-	2,627	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	19,501	7,305	12,196	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	3,400	2,700	700	-	-	-
VETERANS ADMINISTRATION	14,300	14,233	67	-	117,800	20,163	-	-	97,637	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-20. FEDERAL OBLIGATIONS FOR RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	2,000,612	285,671	454,536	1,182,546	77,859	1,260,957	409,513	401,755	262,124	187,565
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	52,633	-	48,907	3,726	-	13,772	4,922	8,850	-	-
FOREST SERVICE	4,416	-	3,147	1,269	-	10,421	2,068	8,353	-	-
SCIENCE & EDUCATION ADMINISTRATION	48,217	-	45,760	2,457	-	3,351	2,854	497	-	-
AGRICULTURAL RESEARCH	39,782	-	37,325	2,457	-	2,295	1,798	497	-	-
AGRICULTURAL COOPERATIVE RESEARCH	8,435	-	8,435	-	-	1,056	1,056	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	38,698	645	9,492	28,486	75	105,590	40,533	1,880	63,140	37
NATIONAL BUREAU OF STANDARDS	32,301	645	8,148	23,433	75	427	242	185	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	5,876	-	1,344	4,532	-	105,163	40,291	1,695	63,140	37
OFFICE OF THE SECRETARY	521	-	-	521	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	410,530	13,194	78,221	269,385	49,730	181,847	79,916	29,886	56,299	15,746
DEPARTMENT OF THE ARMY	100,294	-	36,898	35,500	27,896	25,474	11,922	7,466	343	5,743
DEPARTMENT OF THE NAVY	130,978	8,934	17,605	97,882	6,557	73,985	9,853	4,355	52,358	7,419
DEPARTMENT OF THE AIR FORCE	66,288	4,260	22,910	39,118	-	38,486	32,800	5,686	-	-
DEFENSE AGENCIES	112,970	-	808	96,885	15,277	43,902	25,341	12,379	3,598	2,594
DEPARTMENT OF ENERGY	792,100	-	84,313	690,503	17,284	117,392	15,937	32,617	14,284	54,554
DEPT OF HLTH & HUMAN SERVICES, TOTAL	79,781	-	69,908	9,873	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	1,467	-	1,467	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	78,314	-	68,441	9,873	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	13,924	-	9,771	2,553	1,600	159,954	10,998	129,255	11,261	8,440
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	100	-	100	-	-
BUREAU OF MINES	5,250	-	4,050	-	1,200	13,350	-	7,950	-	5,400
GEOLOGICAL SURVEY	6,233	-	4,644	1,589	-	127,994	-	116,883	11,111	-
NATIONAL PARK SERVICE	400	-	-	-	400	997	668	313	-	16
OFFICE OF THE SECRETARY	-	-	-	-	-	1,185	-	-	-	1,195
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	705	-	-	705	-	1,155	-	516	-	639
OFFICE OF WATER RSCH & TECHNOLOGY	1,336	-	1,077	259	-	5,199	456	3,493	50	1,200
WATER AND POWER RESOURCES SERVICE	-	-	-	-	-	9,974	9,874	-	100	-
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	-	395	-	-	-	395
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	-	395	-	-	-	395
DEPARTMENT OF STATE, TOTAL	70	-	-	-	70	195	-	73	15	107
DEPARTMENTAL FUNDS	70	-	-	-	70	195	-	73	15	107
DEPARTMENT OF TRANSPORTATION, TOTAL	1,200	-	1,200	-	-	1,048	48	-	1,000	-
COAST GUARD	1,200	-	1,200	-	-	1,000	-	-	1,000	-
RESEARCH & SPECIAL PROGRAMS ADMIN	-	-	-	-	-	48	48	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	1,450	-	311	306	833	-	-	-	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	50	-	25	25	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,300	-	286	181	833	-	-	-	-	-
CUSTOMS SERVICE	100	-	-	100	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	71,542	-	70,667	875	-	7,504	1,887	5,265	352	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	3,446	-	1,188	2,258	-	357	-	357	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	321,272	229,724	6,734	77,211	7,603	413,444	178,102	99,225	28,826	107,291
NATIONAL SCIENCE FOUNDATION	203,256	34,512	70,724	97,370	650	256,244	76,893	92,231	86,125	995
SMITHSONIAN INSTITUTION	7,596	7,596	-	-	-	3,053	115	2,116	822	-
TENNESSEE VALLEY AUTHORITY	3,100	-	3,100	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	14	-	-	-	14	162	162	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-21. FEDERAL OBLIGATIONS FOR RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1991 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	2,233,827	258,036	513,187	1,373,265	89,339	1,275,711	395,239	432,896	250,058	197,518
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	59,933	-	55,717	4,216	-	15,069	5,360	9,709	-	-
FOREST SERVICE	4,835	-	3,446	1,389	-	11,420	2,265	9,155	-	-
SCIENCE & EDUCATION ADMINISTRATION	55,098	-	52,271	2,827	-	3,649	3,095	554	-	-
AGRICULTURAL RESEARCH	45,855	-	43,028	2,827	-	2,492	1,938	554	-	-
AGRICULTURAL COOPERATIVE RESEARCH	9,243	-	9,243	-	-	1,157	1,157	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	42,272	534	10,011	31,727	-	99,774	41,841	1,516	56,417	-
NATIONAL BUREAU OF STANDARDS	36,460	534	8,805	27,121	-	528	268	260	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	5,755	-	1,206	4,549	-	99,246	41,573	1,256	56,417	-
OFFICE OF THE SECRETARY	57	-	-	57	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	506,634	14,479	89,335	341,564	61,256	162,907	80,189	34,133	35,971	12,614
DEPARTMENT OF THE ARMY	103,103	-	38,835	41,638	22,630	21,944	12,179	7,447	434	1,884
DEPARTMENT OF THE NAVY	182,607	9,734	25,011	138,436	9,426	55,869	11,430	5,320	31,127	7,992
DEPARTMENT OF THE AIR FORCE	76,548	4,745	24,977	44,726	2,100	41,446	34,477	6,969	-	-
DEFENSE AGENCIES	144,376	-	512	116,764	27,100	43,649	22,103	14,399	4,410	2,739
DEPARTMENT OF ENERGY	902,579	-	100,059	787,933	14,587	122,910	15,850	32,983	11,681	62,396
DEPT OF HLTH & HUMAN SERVICES, TOTAL	83,775	-	73,457	10,318	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	1,297	-	1,297	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	82,478	-	72,160	10,318	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	15,022	-	10,768	2,149	2,105	172,931	9,603	141,764	12,251	9,313
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	135	-	-	-	135
BUREAU OF MINES	5,525	-	4,325	-	1,200	12,925	-	7,725	-	5,100
GEOLOGICAL SURVEY	8,054	-	6,004	2,050	-	143,832	-	131,701	12,131	-
NATIONAL PARK SERVICE	400	-	-	-	400	1,439	805	603	-	31
OFFICE OF THE SECRETARY	-	-	-	-	-	3,095	-	-	-	3,095
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	505	-	-	-	505	850	-	354	-	496
OFFICE OF WATER RSCH & TECHNOLOGY	538	-	439	99	-	2,029	172	1,331	20	456
WATER AND POWER RESOURCES SERVICE	-	-	-	-	-	3,726	3,626	-	100	-
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	-	700	-	-	-	700
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	-	700	-	-	-	700
DEPARTMENT OF STATE, TOTAL	65	-	-	-	65	158	-	25	45	88
DEPARTMENTAL FUNDS	65	-	-	-	65	158	-	25	45	88
DEPARTMENT OF TRANSPORTATION, TOTAL	1,500	-	1,500	-	-	500	-	-	500	-
COAST GUARD	1,500	-	1,500	-	-	500	-	-	500	-
DEPARTMENT OF THE TREASURY, TOTAL	2,012	-	434	385	1,193	-	-	-	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	50	-	25	25	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,862	-	409	260	1,193	-	-	-	-	-
CUSTOMS SERVICE	100	-	-	100	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	82,959	-	82,959	-	-	6,098	3,396	2,327	375	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	3,978	-	1,200	2,778	-	532	532	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	295,801	196,660	7,622	82,831	8,688	414,926	159,270	111,645	32,029	111,982
NATIONAL SCIENCE FOUNDATION	225,817	38,083	76,925	109,364	1,445	275,874	79,074	96,520	99,855	425
SMITHSONIAN INSTITUTION	8,280	8,280	-	-	-	3,332	124	2,274	934	-
TENNESSEE VALLEY AUTHORITY	3,200	-	3,200	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-22. FEDERAL OBLIGATIONS FOR RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1992 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	2,644,129	296,427	570,253	1,657,825	119,624	1,376,966	436,369	473,841	274,419	192,337
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	66,332	-	61,685	4,647	-	16,596	5,929	10,667	-	-
FOREST SERVICE	5,310	-	3,785	1,525	-	12,541	2,487	10,054	-	-
SCIENCE & EDUCATION ADMINISTRATION	61,022	-	57,900	3,122	-	4,055	3,442	613	-	-
AGRICULTURAL RESEARCH	50,614	-	47,492	3,122	-	2,752	2,139	613	-	-
AGRICULTURAL COOPERATIVE RESEARCH	10,408	-	10,408	-	-	1,303	1,303	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	45,600	545	11,079	33,976	-	77,438	40,656	5,314	31,468	-
NATIONAL BUREAU OF STANDARDS	39,221	545	9,749	28,927	-	542	275	267	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	6,379	-	1,330	5,049	-	76,896	40,381	5,047	31,468	-
DEPARTMENT OF DEFENSE, TOTAL	671,814	16,569	107,746	467,069	80,430	229,119	92,216	48,955	70,607	17,341
DEPARTMENT OF THE ARMY	133,721	-	48,270	51,136	34,315	28,146	15,416	9,545	479	2,706
DEPARTMENT OF THE NAVY	223,543	11,373	32,055	169,154	10,961	88,427	12,326	5,926	60,309	9,365
DEPARTMENT OF THE AIR FORCE	84,527	5,196	26,794	49,843	2,694	49,435	40,105	9,330	-	-
DEFENSE AGENCIES	230,023	-	627	196,936	32,460	64,111	24,369	25,154	9,819	4,769
DEPARTMENT OF ENERGY	1,068,542	-	127,368	921,407	19,767	121,241	14,352	32,959	11,056	62,874
DEPT OF HLTH & HUMAN SERVICES, TOTAL	90,333	-	79,237	11,096	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	1,602	-	1,602	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	88,731	-	77,635	11,096	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	15,794	-	11,750	2,044	2,000	170,962	6,657	149,815	13,102	2,388
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	300	-	-	-	300
BUREAU OF MINES	6,350	-	5,650	-	1,200	8,000	-	6,200	-	1,300
GEOLOGICAL SURVEY	8,144	-	6,100	2,044	-	154,734	-	141,712	13,022	-
NATIONAL PARK SERVICE	800	-	-	-	800	2,334	1,835	453	-	46
OFFICE OF THE SECRETARY	-	-	-	-	-	242	-	-	-	242
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	-	450	-	450	-	-
WATER AND POWER RESOURCES SERVICE	-	-	-	-	-	4,902	4,822	-	80	-
DEPARTMENT OF JUSTICE, TOTAL	50	-	-	-	50	225	-	-	-	225
DRUG ENFORCEMENT ADMINISTRATION	50	-	-	-	50	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	-	225	-	-	-	225
DEPARTMENT OF STATE, TOTAL	65	-	-	-	65	178	-	25	65	88
DEPARTMENTAL FUNDS	65	-	-	-	65	178	-	25	65	88
DEPARTMENT OF TRANSPORTATION, TOTAL	1,000	-	1,000	-	-	500	-	-	500	-
COAST GUARD	1,000	-	1,000	-	-	500	-	-	500	-
DEPARTMENT OF THE TREASURY, TOTAL	1,910	-	397	355	1,158	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,810	-	397	255	1,158	-	-	-	-	-
CUSTOMS SERVICE	100	-	-	100	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	70,152	-	70,152	-	-	4,767	4,042	725	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	1,979	-	-	1,979	-	681	-	681	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	337,444	228,909	6,034	87,968	14,533	448,101	186,061	116,321	36,673	109,046
NATIONAL SCIENCE FOUNDATION	261,002	41,786	90,505	127,284	1,427	303,400	86,128	106,953	109,944	375
SMITHSONIAN INSTITUTION	8,535	8,535	-	-	-	3,558	138	2,426	994	-
TENNESSEE VALLEY AUTHORITY	3,300	-	3,300	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	277	83	-	-	194	200	190	-	10	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-23. FEDERAL OBLIGATIONS FOR RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	2,830,131	708,134	302,325	96,335	158,781	517,142	207,978	236,184	603,252
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	46,627	-	-	4,457	4,318	329	3,762	-	33,761
FOREST SERVICE	12,317	-	-	2,092	1,991	-	2,763	-	5,471
SCIENCE & EDUCATION ADMINISTRATION	34,310	-	-	2,365	2,327	329	999	-	28,290
AGRICULTURAL RESEARCH	28,527	-	-	2,365	2,327	329	999	-	22,507
AGRICULTURAL COOPERATIVE RESEARCH	5,783	-	-	-	-	-	-	-	5,783
DEPARTMENT OF COMMERCE, TOTAL	40,572	85	-	720	14,084	13,112	1,589	5,338	5,644
MARITIME ADMINISTRATION	10,744	-	-	-	10,744	-	-	-	-
NATIONAL BUREAU OF STANDARDS	18,933	85	-	720	2,437	3,412	1,589	5,046	5,644
NAT'L OCEANIC & ATMOSPHERIC ADMIN	2,473	-	-	-	903	1,278	-	292	-
NAT'L TELECOMM & INFORMATION ADMIN	8,422	-	-	-	-	8,422	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,165,226	214,221	67,813	24,049	30,149	442,299	122,378	104,171	160,146
DEPARTMENT OF THE ARMY	231,302	33,843	1,282	10,653	21,012	94,819	38,869	17,699	13,125
DEPARTMENT OF THE NAVY	314,248	42,483	-	10,410	2,269	82,135	43,807	31,334	101,810
DEPARTMENT OF THE AIR FORCE	343,466	103,650	43,300	2,570	2,463	145,174	17,886	28,423	-
DEFENSE AGENCIES	276,210	34,245	23,231	416	4,405	120,171	21,816	26,715	45,211
DEPARTMENT OF EDUCATION, TOTAL	5,906	-	-	-	-	-	-	-	5,906
DEPARTMENT OF ENERGY	193,120	-	-	14,412	1,030	14,760	25,589	48,940	88,389
DEPT OF HLTH & HUMAN SERVICES, TOTAL	43,179	-	-	-	-	-	-	-	43,179
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	85	-	-	-	-	-	-	-	85
NATIONAL INSTITUTES OF HEALTH	43,094	-	-	-	-	-	-	-	43,094
DEPT OF HOUSING & URBAN DEVELOPMENT	1,922	-	-	-	-	-	-	-	1,922
DEPARTMENT OF THE INTERIOR, TOTAL	79,140	-	-	4,236	20,625	961	6,681	45,038	1,599
BUREAU OF MINES	59,400	-	-	3,800	8,600	300	5,300	41,100	300
GEOLOGICAL SURVEY	8,873	-	-	-	7,142	390	1,341	-	-
NATIONAL PARK SERVICE	13	-	-	-	-	-	-	-	13
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	4,102	-	-	-	269	-	-	3,834	-
OFFICE OF WATER RSCH & TECHNOLOGY	4,615	-	-	376	2,813	41	-	104	1,231
WATER AND POWER RESOURCES SERVICE	2,132	-	-	60	1,802	230	40	-	-
DEPARTMENT OF JUSTICE, TOTAL	751	-	-	-	-	751	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	600	-	-	-	-	600	-	-	-
IMMIGRATION & NATURALIZATION SVC	151	-	-	-	-	151	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	52,777	1,230	574	1,087	21,173	3,530	18,479	1,224	5,480
COAST GUARD	4,600	-	-	500	-	600	-	-	3,500
FEDERAL AVIATION ADMINISTRATION	8,200	1,230	574	-	5,330	1,066	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	3,743	-	-	-	3,193	-	225	271	54
FEDERAL RAILROAD ADMINISTRATION	7,858	-	-	-	2,957	691	2,284	-	1,926
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	15,573	-	-	-	-	-	15,573	-	-
OFFICE OF THE SECRETARY	320	-	-	-	320	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	3,593	-	-	587	483	1,173	397	953	-
URBAN MASS TRANSPORTATION ADMIN	8,890	-	-	-	8,890	-	-	-	-
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	179	-	-	-	-	-	-	-	179
ENVIRONMENTAL PROTECTION AGENCY	85,253	-	-	31,966	37,091	4,426	11,780	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,553	-	-	-	-	1,553	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,905	-	-	155	903	118	815	-	914
GENERAL SERVICES ADMINISTRATION	33	-	-	-	33	-	-	-	-
INTERNATIONAL COMMUNICATION AGENCY	83	-	-	-	-	83	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	6,491	-	-	-	1,919	500	-	-	4,072
AGENCY FOR INTERNAT'L DEVELOPMENT	6,491	-	-	-	1,919	500	-	-	4,072
NATIONAL AERONAUTICS & SPACE ADMIN	799,629	491,398	233,793	206	55	4,103	3,062	8,856	58,155
NATIONAL SCIENCE FOUNDATION	106,796	1,046	-	15,014	27,381	21,692	13,743	22,617	5,301
NUCLEAR REGULATORY COMMISSION	182,672	-	-	-	-	-	-	-	182,672
TENNESSEE VALLEY AUTHORITY	8,900	-	-	-	-	8,800	100	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	1,379	152	145	33	30	125	-	-	893
VETERANS ADMINISTRATION	5,040	-	-	-	-	-	-	-	5,040

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-24. FEDERAL OBLIGATIONS FOR RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	3,027,107	710,747	298,848	160,916	147,069	576,252	200,047	263,597	669,640
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	51,880	-	-	4,908	4,807	377	4,151	-	37,637
FOREST SERVICE	13,495	-	-	2,291	2,182	-	3,027	-	5,995
SCIENCE & EDUCATION ADMINISTRATION	38,385	-	-	2,617	2,625	377	1,124	-	31,642
AGRICULTURAL RESEARCH	32,047	-	-	2,617	2,625	377	1,124	-	25,304
AGRICULTURAL COOPERATIVE RESEARCH	6,339	-	-	-	-	-	-	-	6,339
DEPARTMENT OF COMMERCE, TOTAL	46,219	-	-	1,001	11,871	14,841	2,130	6,294	10,082
MARITIME ADMINISTRATION	8,766	-	-	-	8,766	-	-	-	-
NATIONAL BUREAU OF STANDARDS	21,056	-	-	1,001	2,945	3,527	2,130	5,821	5,632
NAT'L OCEANIC & ATMOSPHERIC ADMIN	7,232	-	-	-	160	2,149	-	473	4,450
NAT'L TELECOMM & INFORMATION ADMIN	9,165	-	-	-	-	9,165	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,310,764	236,189	64,634	51,082	32,050	497,018	120,715	131,867	177,209
DEPARTMENT OF THE ARMY	250,475	31,267	1,756	17,980	20,859	104,214	39,698	19,860	14,841
DEPARTMENT OF THE NAVY	335,398	40,112	-	30,197	3,005	86,171	44,510	43,608	87,795
DEPARTMENT OF THE AIR FORCE	388,550	111,209	45,706	2,610	3,332	165,456	19,074	33,058	8,105
DEFENSE AGENCIES	336,341	53,601	17,172	295	4,854	141,177	17,433	35,341	66,468
DEPARTMENT OF EDUCATION, TOTAL	5,441	-	-	-	-	-	-	-	5,441
DEPARTMENT OF ENERGY	200,824	-	-	17,134	980	14,633	25,576	54,326	88,175
DEPT OF HLTH & HUMAN SERVICES, TOTAL	45,493	-	-	-	-	-	-	-	45,493
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	82	-	-	-	-	-	-	-	82
NATIONAL INSTITUTES OF HEALTH	45,411	-	-	-	-	-	-	-	45,411
DEPT OF HOUSING & URBAN DEVELOPMENT	1,416	-	-	-	-	-	-	-	1,416
DEPARTMENT OF THE INTERIOR, TOTAL	74,456	-	-	3,565	19,687	934	6,457	39,512	4,301
BUREAU OF MINES	56,450	-	-	3,300	8,300	300	5,100	39,150	300
GEOLOGICAL SURVEY	8,979	-	-	-	7,272	390	1,317	-	-
NATIONAL PARK SERVICE	24	-	-	-	-	-	-	3	21
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	3,165	-	-	-	155	-	-	318	2,692
OFFICE OF WATER RSCH & TECHNOLOGY	1,813	-	-	205	1,065	14	-	41	488
WATER AND POWER RESOURCES SERVICE	4,025	-	-	60	2,995	230	40	-	300
DEPARTMENT OF JUSTICE, TOTAL	1,116	-	-	-	-	1,116	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	600	-	-	-	-	600	-	-	-
IMMIGRATION & NATURALIZATION SVC	516	-	-	-	-	516	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	55,106	1,425	665	953	21,761	2,957	19,354	343	7,648
COAST GUARD	6,000	-	-	-	-	500	-	-	5,500
FEDERAL AVIATION ADMINISTRATION	9,500	1,425	665	-	6,175	1,235	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,015	-	-	-	3,516	-	98	343	58
FEDERAL RAILROAD ADMINISTRATION	8,359	-	-	-	3,092	669	2,507	-	2,090
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	15,474	-	-	-	-	-	15,474	-	-
OFFICE OF THE SECRETARY	400	-	-	400	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	2,827	-	-	553	446	553	1,275	-	-
URBAN MASS TRANSPORTATION ADMIN	8,532	-	-	-	8,532	-	-	-	-
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	1,016	-	-	-	-	-	-	-	1,016
ENVIRONMENTAL PROTECTION AGENCY	91,010	-	-	65,227	25,783	-	-	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,620	-	-	-	-	1,620	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	4,324	-	-	231	1,344	175	1,213	-	1,361
GENERAL SERVICES ADMINISTRATION	123	-	-	50	73	-	-	-	-
INTERNATIONAL COMMUNICATION AGENCY	220	-	-	-	-	220	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	6,204	-	-	-	1,500	1,000	-	-	3,704
AGENCY FOR INTERNAT'L DEVELOPMENT	6,204	-	-	-	1,500	1,000	-	-	3,704
NATIONAL AERONAUTICS & SPACE ADMIN	786,838	471,972	233,549	240	65	4,460	3,275	6,000	67,277
NATIONAL SCIENCE FOUNDATION	119,231	1,098	-	16,500	27,139	25,401	17,076	25,255	6,762
NUCLEAR REGULATORY COMMISSION	207,673	-	-	-	-	-	-	-	207,673
TENNESSEE VALLEY AUTHORITY	11,500	-	-	-	-	11,400	100	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	735	63	-	25	-	100	-	-	547
VETERANS ADMINISTRATION	3,898	-	-	-	-	-	-	-	3,898

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-25. FEDERAL OBLIGATIONS FOR RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	3,375,822	759,455	315,631	145,020	152,162	711,469	227,377	339,584	725,124
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	57,363	-	-	5,407	5,296	417	4,566	-	41,677
FOREST SERVICE	14,819	-	-	2,515	2,396	-	3,324	-	6,584
SCIENCE & EDUCATION ADMINISTRATION	42,544	-	-	2,892	2,900	417	1,242	-	35,093
AGRICULTURAL RESEARCH	35,407	-	-	2,892	2,900	417	1,242	-	27,956
AGRICULTURAL COOPERATIVE RESEARCH	7,137	-	-	-	-	-	-	-	7,137
DEPARTMENT OF COMMERCE, TOTAL	45,807	-	-	1,217	12,139	13,622	3,834	9,595	5,400
MARITIME ADMINISTRATION	8,110	-	-	-	8,110	-	-	-	-
NATIONAL BUREAU OF STANDARDS	27,078	-	-	1,217	2,993	4,225	3,834	9,476	5,333
NAT'L OCEANIC & ATMOSPHERIC ADMIN	2,719	-	-	-	1,036	1,497	-	119	67
NAT'L TELECOMM & INFORMATION ADMIN	7,900	-	-	-	-	7,900	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,576,278	282,859	67,158	36,944	45,596	631,711	142,394	166,250	203,366
DEPARTMENT OF THE ARMY	317,076	43,744	1,236	20,300	26,514	132,671	51,161	22,785	18,665
DEPARTMENT OF THE NAVY	376,963	44,223	-	12,422	3,933	99,596	52,614	49,255	114,920
DEPARTMENT OF THE AIR FORCE	416,499	118,797	50,766	3,210	6,430	170,168	22,284	35,435	9,409
DEFENSE AGENCIES	465,740	76,095	15,156	1,012	8,719	229,276	16,335	58,775	60,372
DEPARTMENT OF EDUCATION, TOTAL	85	-	-	-	-	-	-	-	85
DEPARTMENT OF ENERGY	241,077	-	-	20,545	970	8,029	28,449	84,199	98,885
DEPT OF HLTH & HUMAN SERVICES, TOTAL	48,903	-	-	-	-	-	-	-	48,903
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	84	-	-	-	-	-	-	-	84
NATIONAL INSTITUTES OF HEALTH	48,819	-	-	-	-	-	-	-	48,819
DEPT OF HOUSING & URBAN DEVELOPMENT	1,222	-	-	-	-	-	-	-	1,222
DEPARTMENT OF THE INTERIOR, TOTAL	71,160	-	-	6,830	12,625	880	4,961	40,500	5,364
BUREAU OF MINES	58,900	-	-	6,800	3,000	300	3,750	40,500	4,550
GEOLOGICAL SURVEY	8,257	-	-	-	6,686	360	1,211	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	520	-	-	-	251	-	-	-	269
WATER AND POWER RESOURCES SERVICE	3,483	-	-	30	2,688	220	-	-	545
DEPARTMENT OF JUSTICE, TOTAL	729	-	-	-	-	729	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	500	-	-	-	-	500	-	-	-
IMMIGRATION & NATURALIZATION SVC	229	-	-	-	-	229	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	57,792	3,350	630	1,094	21,953	2,921	18,202	2,084	7,559
COAST GUARD	10,000	2,000	-	-	-	500	-	-	7,500
FEDERAL AVIATION ADMINISTRATION	9,000	1,350	630	-	5,850	1,170	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,015	-	-	-	3,516	-	98	343	58
FEDERAL RAILROAD ADMINISTRATION	6,965	-	-	-	2,577	557	2,090	1,741	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	15,042	-	-	-	-	-	15,042	-	-
OFFICE OF THE SECRETARY	400	-	-	400	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	2,920	-	-	694	560	694	972	-	-
URBAN MASS TRANSPORTATION ADMIN	9,450	-	-	-	9,450	-	-	-	-
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	790	-	-	-	-	-	-	-	790
ENVIRONMENTAL PROTECTION AGENCY	72,664	-	-	52,835	19,829	-	-	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,084	-	-	-	-	1,084	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	5,537	-	-	296	1,720	224	1,554	-	1,743
GENERAL SERVICES ADMINISTRATION	134	-	-	100	34	-	-	-	-
INTERNATIONAL COMMUNICATION AGENCY	138	-	-	-	-	138	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	12,560	-	-	-	1,710	1,000	-	-	9,850
AGENCY FOR INTERNAT'L DEVELOPMENT	12,560	-	-	-	1,710	1,000	-	-	9,850
NATIONAL AERONAUTICS & SPACE ADMIN	776,616	471,680	247,698	270	75	4,650	3,400	7,215	41,628
NATIONAL SCIENCE FOUNDATION	141,319	1,406	-	19,458	30,215	32,130	19,917	29,741	8,452
NUCLEAR REGULATORY COMMISSION	224,540	-	-	-	-	-	-	-	224,540
TENNESSEE VALLEY AUTHORITY	13,900	-	-	-	-	13,800	100	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	1,326	160	145	24	-	135	-	-	862
VETERANS ADMINISTRATION	4,800	-	-	-	-	-	-	-	4,800

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-26. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	240,943	90,926	128,593	21,424	523,811	17,179	192,771	12,170	71,435	230,256
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	2,751	2,751	-	-	83,729	19	76,582	72	5,921	1,135
AGRICULTURAL COOPERATIVE SVC	-	-	-	-	1,634	-	1,634	-	-	-
ECONOMICS & STATISTICS SERVICE	245	245	-	-	30,806	-	29,480	-	1,015	311
FOREST SERVICE	1,335	1,335	-	-	10,235	-	7,242	72	2,921	-
SCIENCE & EDUCATION ADMINISTRATION	1,171	1,171	-	-	41,054	19	38,226	-	1,985	824
AGRICULTURAL RESEARCH	1,171	1,171	-	-	3,547	19	2,704	-	-	824
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	37,507	-	35,522	-	1,985	-
DEPARTMENT OF COMMERCE, TOTAL	8,990	5,410	2,409	1,171	6,735	-	6,486	89	160	-
BUREAU OF THE CENSUS	1,339	1,191	148	-	353	-	193	-	160	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	2,500	-	2,500	-	-	-
MARITIME ADMINISTRATION	844	-	844	-	548	-	548	-	-	-
NATIONAL BUREAU OF STANDARDS	5,456	3,678	607	1,171	1,776	-	1,776	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,351	541	810	-	355	-	266	89	-	-
NAT'L TELECOMM & INFORMATION ADMIN	-	-	-	-	1,203	-	1,203	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	137,328	31,360	89,729	16,739	5,120	-	101	1,245	2,447	1,327
DEPARTMENT OF THE ARMY	14,155	7,998	6,027	130	704	-	101	-	561	42
DEPARTMENT OF THE NAVY	54,445	8,786	38,633	7,026	1,886	-	-	-	1,886	-
DEPARTMENT OF THE AIR FORCE	30,698	11,596	19,102	-	-	-	-	-	-	-
DEFENSE AGENCIES	38,530	2,980	25,967	9,583	2,530	-	-	1,245	-	1,285
DEPARTMENT OF EDUCATION, TOTAL	-	-	-	-	52,044	-	-	-	-	52,044
DEPARTMENT OF ENERGY	11,644	7,176	3,020	1,448	2,269	-	-	-	-	2,269
DEPT OF HLTH & HUMAN SERVICES, TOTAL	8,989	8,438	85	466	181,438	990	20,172	1,043	40,036	119,207
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	551	-	85	466	31,912	990	86	514	26,126	4,236
HEALTH CARE FINANCING ADMIN	-	-	-	-	45,727	-	-	-	-	45,727
NATIONAL INSTITUTES OF HEALTH	8,438	8,438	-	-	13,575	-	-	-	-	13,575
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	25,706	-	3,286	529	6,710	15,181
OFF OF HUMAN DEVELOPMENT SERVICES	-	-	-	-	19,131	-	-	-	-	19,131
OFFICE OF THE SECRETARY	-	-	-	-	24,000	-	16,800	-	7,200	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	21,397	-	-	-	-	21,337
DEPT OF HOUSING & URBAN DEVELOPMENT	-	-	-	-	17,679	-	12,979	-	-	4,700
DEPARTMENT OF THE INTERIOR, TOTAL	8,130	5,032	2,941	157	5,809	2,300	1,534	887	623	464
BUREAU OF LAND MANAGEMENT	-	-	-	-	75	-	-	-	75	-
BUREAU OF MINES	4,800	4,800	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	2,739	232	2,507	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	2,384	2,300	-	-	84	-
OFFICE OF THE SECRETARY	349	-	349	-	699	-	699	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	85	-	85	-	212	-	-	-	-	212
OFFICE OF WATER RSCH & TECHNOLOGY	157	-	-	157	2,283	-	810	887	334	252
WATER AND POWER RESOURCES SERVICE	-	-	-	-	155	-	25	-	130	-
DEPARTMENT OF JUSTICE, TOTAL	100	-	100	-	24,491	-	500	2,990	7,693	13,308
DRUG ENFORCEMENT ADMINISTRATION	100	-	100	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	-	-	-	-	857	-	300	-	-	557
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	1,320	-	-	-	-	1,320
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	22,314	-	200	2,990	7,693	11,431
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	36,240	-	36,176	-	64	-
BUREAU OF LABOR STATISTICS	-	-	-	-	925	-	925	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	4,900	-	4,900	-	-	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	19,932	-	19,868	-	64	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	2,819	-	2,819	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	6,300	-	6,300	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,364	-	1,364	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	1,544	-	108	-	-	1,436
DEPARTMENTAL FUNDS	-	-	-	-	1,544	-	108	-	-	1,436

CONTINUED ON NEXT PAGE

TABLE C-26. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	1,344	-	1,344	-	17,846	-	10,869	-	6,560	317
COAST GUARD	-	-	-	-	100	-	100	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	90	-	90	-	497	-	180	-	-	317
FEDERAL RAILROAD ADMINISTRATION	31	-	31	-	11	-	11	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	-	-	-	-	16,282	-	9,622	-	6,660	-
OFFICE OF THE SECRETARY	-	-	-	-	320	-	320	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	1,223	-	1,223	-	636	-	636	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	1,655	254	608	793	1,801	-	-	-	59	1,742
INTERNAL REVENUE SERVICE	1,655	254	608	793	1,801	-	-	-	59	1,742
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	2,219	-	1,109	1,110	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	600	-	600	-	-	-
COMMUNITY SERVICES ADMINISTRATION	-	-	-	-	1,250	-	-	-	1,250	-
ENVIRONMENTAL PROTECTION AGENCY	1,038	-	1,038	-	1,739	-	1,239	-	500	-
FEDERAL COMMUNICATIONS COMMISSION	82	-	-	82	1,741	-	1,416	-	-	325
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	371	326	45	-	960	-	233	438	287	2
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	1,227	-	1,227	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	3,021	-	3,021	-	-	-
GENERAL SERVICES ADMINISTRATION	72	-	72	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	587	-	587	-	8,615	-	35	-	580	8,000
AGENCY FOR INTERNAT'L DEVELOPMENT ..	587	-	587	-	8,615	-	35	-	580	8,000
INTERSTATE COMMERCE COMMISSION	50	-	50	-	93	-	93	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	3,755	2,342	1,214	199	217	-	22	-	25	170
NATIONAL SCIENCE FOUNDATION	52,678	27,372	25,237	69	47,491	6,874	15,513	3,869	5,130	16,105
OFFICE OF PERSONNEL MANAGEMENT	-	-	-	-	300	-	-	300	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	14,613	7,006	-	-	-	7,607
TENNESSEE VALLEY AUTHORITY	-	-	-	-	400	-	400	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	879	465	114	300	513	-	288	127	-	98
US INTERNATIONAL TRADE COMMISSION	-	-	-	-	2,068	-	2,068	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-27. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE-MATICS	COMPUTER SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES NEC	TOTAL	ANTHRO-POLOGY	ECONOM-ICS	POLITI-CAL SCIENCE	SOCI-OLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	284,056	102,942	145,806	35,308	517,329	16,331	201,758	10,401	69,985	218,333
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	3,054	3,054	-	-	95,025	21	87,031	80	6,623	1,270
AGRICULTURAL COOPERATIVE SVC	-	-	-	-	2,469	-	2,469	-	-	-
ECONOMICS & STATISTICS SERVICE	280	280	-	-	36,305	-	34,692	-	1,247	366
FOREST SERVICE	1,462	1,462	-	-	11,217	-	7,937	80	3,200	-
SCIENCE & EDUCATION ADMINISTRATION	1,312	1,312	-	-	45,034	21	41,933	-	2,176	904
AGRICULTURAL RESEARCH	1,312	1,312	-	-	3,926	21	3,001	-	-	904
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	41,108	-	38,932	-	2,176	-
DEPARTMENT OF COMMERCE, TOTAL	9,944	6,101	2,482	1,361	7,212	-	5,545	1,059	191	417
BUREAU OF THE CENSUS	1,580	1,403	177	-	422	-	231	-	191	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	1,800	-	1,800	-	-	-
MARITIME ADMINISTRATION	600	-	600	-	500	-	500	-	-	-
NATIONAL BUREAU OF STANDARDS	6,337	4,127	849	1,361	753	-	753	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,427	571	856	-	2,713	-	1,237	1,059	-	417
NAT'L TELECOMM & INFORMATION ADMIN	-	-	-	-	1,024	-	1,024	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	175,390	38,009	106,033	31,348	5,265	-	140	778	3,546	801
DEPARTMENT OF THE ARMY	15,344	7,611	7,588	145	895	-	140	-	605	150
DEPARTMENT OF THE NAVY	65,688	9,452	49,741	6,495	2,941	-	-	-	2,941	-
DEPARTMENT OF THE AIR FORCE	35,594	11,578	21,516	2,500	-	-	-	-	-	-
DEFENSE AGENCIES	58,764	9,368	27,188	22,208	1,429	-	-	778	-	651
DEPARTMENT OF EDUCATION, TOTAL	-	-	-	-	52,262	-	-	-	-	52,262
DEPARTMENT OF ENERGY	13,033	8,385	2,980	1,668	2,602	-	-	-	-	2,602
DEPT OF HLTH & HUMAN SERVICES, TOTAL	9,299	8,911	100	388	180,649	939	19,317	1,159	39,168	120,066
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	488	-	100	388	30,871	939	62	497	24,760	4,613
HEALTH CARE FINANCING ADMIN	-	-	-	-	46,000	-	-	-	-	46,000
NATIONAL INSTITUTES OF HEALTH	8,811	8,811	-	-	14,307	-	-	-	-	14,307
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	30,920	-	3,855	662	7,808	18,595
OFF OF HUMAN DEVELOPMENT SERVICES	-	-	-	-	16,303	-	-	-	-	16,303
OFFICE OF THE SECRETARY	-	-	-	-	22,000	-	15,400	-	6,600	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	20,248	-	-	-	-	20,248
DEPT OF HOUSING & URBAN DEVELOPMENT	-	-	-	-	17,638	-	15,071	-	-	2,567
DEPARTMENT OF THE INTERIOR, TOTAL	8,430	5,000	3,379	51	4,658	2,300	902	339	431	686
BUREAU OF LAND MANAGEMENT	-	-	-	-	75	-	-	-	75	-
BUREAU OF MINES	4,700	4,700	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	3,401	300	3,101	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	2,400	2,300	-	-	100	-
OFFICE OF THE SECRETARY	278	-	278	-	555	-	555	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	590	-	-	-	-	590
OFFICE OF WATER RSCH & TECHNOLOGY	51	-	-	51	868	-	307	339	126	96
WATER AND POWER RESOURCES SERVICE	-	-	-	-	170	-	40	-	130	-
DEPARTMENT OF JUSTICE, TOTAL	50	-	50	-	18,344	-	903	1,500	6,947	8,994
DRUG ENFORCEMENT ADMINISTRATION	50	-	50	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	-	-	-	-	1,057	-	400	-	-	657
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	1,500	-	-	-	-	1,500
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	15,787	-	503	1,500	6,947	6,837
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	36,405	-	36,375	-	30	-
BUREAU OF LABOR STATISTICS	-	-	-	-	838	-	838	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	5,900	-	5,900	-	-	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	17,600	-	17,570	-	30	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	3,055	-	3,055	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	8,000	-	8,000	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,012	-	1,012	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	1,479	-	242	-	-	1,237
DEPARTMENTAL FUNDS	-	-	-	-	1,479	-	242	-	-	1,237

CONTINUED ON NEXT PAGE

TABLE C-27. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	909	-	909	-	18,910	-	11,223	-	7,393	294
COAST GUARD	-	-	-	-	100	-	100	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	92	-	92	-	294	-	-	-	-	294
FEDERAL RAILROAD ADMINISTRATION	31	-	31	-	11	-	11	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	-	-	-	-	16,178	-	9,561	-	6,617	-
OFFICE OF THE SECRETARY	-	-	-	-	340	-	340	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	786	-	786	-	1,987	-	1,211	-	776	-
DEPARTMENT OF THE TREASURY, TOTAL	1,097	251	846	-	2,339	-	-	-	42	2,297
INTERNAL REVENUE SERVICE	1,097	251	846	-	2,339	-	-	-	42	2,297
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	1,827	-	913	914	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	280	-	280	-	-	-
COMMUNITY SERVICES ADMINISTRATION	-	-	-	-	1,000	-	-	-	1,000	-
ENVIRONMENTAL PROTECTION AGENCY	300	300	-	-	1,323	-	1,323	-	-	-
FEDERAL COMMUNICATIONS COMMISSION	7	-	-	7	1,058	-	1,032	-	-	26
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	553	486	67	-	1,427	-	346	652	427	2
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	1,150	-	1,150	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	4,166	-	4,166	-	-	-
GENERAL SERVICES ADMINISTRATION	250	-	250	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	700	-	700	-	3,000	-	-	-	-	3,000
AGENCY FOR INTERNAT'L DEVELOPMENT ..	700	-	700	-	3,000	-	-	-	-	3,000
INTERSTATE COMMERCE COMMISSION	50	-	50	-	125	-	125	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	4,515	2,900	1,395	220	250	-	25	-	25	200
NATIONAL SCIENCE FOUNDATION	56,300	29,645	26,540	115	39,092	5,445	12,565	2,940	4,162	12,970
OFFICE OF PERSONNEL MANAGEMENT	-	-	-	-	900	-	-	900	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	15,788	6,596	-	-	-	9,192
TENNESSEE VALLEY AUTHORITY	-	-	-	-	100	-	100	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	175	-	25	150	80	-	-	80	-	-
US INTERNATIONAL TRADE COMMISSION	-	-	-	-	2,984	-	2,984	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-28. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	321,781	120,409	153,405	47,967	485,227	19,596	190,692	5,846	61,111	208,982
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	3,359	3,359	-	-	104,124	24	95,352	87	7,259	1,402
AGRICULTURAL COOPERATIVE SVC	-	-	-	-	2,514	-	2,514	-	-	-
ECONOMICS & STATISTICS SERVICE	303	303	-	-	38,665	-	36,979	-	1,295	391
FOREST SERVICE	1,606	1,606	-	-	12,318	-	8,717	87	3,514	-
SCIENCE & EDUCATION ADMINISTRATION	1,450	1,450	-	-	50,627	24	47,142	-	2,450	1,011
AGRICULTURAL RESEARCH	1,450	1,450	-	-	4,341	24	3,306	-	-	1,011
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	46,286	-	43,836	-	2,450	-
DEPARTMENT OF COMMERCE, TOTAL	11,582	6,505	3,687	1,390	3,034	-	2,754	89	191	-
BUREAU OF THE CENSUS	1,578	1,401	177	-	421	-	230	-	191	-
MARITIME ADMINISTRATION	500	-	500	-	200	-	200	-	-	-
NATIONAL BUREAU OF STANDARDS	7,894	4,382	2,122	1,390	775	-	775	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,610	722	888	-	178	-	89	89	-	-
NAT'L TELECOMM & INFORMATION ADMIN	-	-	-	-	1,460	-	1,460	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	194,969	44,496	106,982	43,491	5,119	-	154	496	2,867	1,602
DEPARTMENT OF THE ARMY	17,688	9,772	7,716	200	1,085	-	154	-	768	163
DEPARTMENT OF THE NAVY	71,141	12,136	50,697	8,308	2,099	-	-	-	2,099	-
DEPARTMENT OF THE AIR FORCE	38,153	14,419	20,734	3,000	-	-	-	-	-	-
DEFENSE AGENCIES	67,987	8,169	27,835	31,983	1,935	-	-	496	-	1,439
DEPARTMENT OF EDUCATION, TOTAL	-	-	-	-	38,866	-	-	-	-	38,866
DEPARTMENT OF ENERGY	15,329	9,600	3,700	2,029	3,144	-	-	-	-	3,144
DEPT OF HLTH & HUMAN SERVICES, TOTAL	9,969	9,467	100	402	179,738	943	13,769	669	35,443	128,914
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	502	-	100	402	32,417	943	65	501	26,069	4,839
HEALTH CARE FINANCING ADMIN	-	-	-	-	46,000	-	-	-	-	46,000
NATIONAL INSTITUTES OF HEALTH	9,467	9,467	-	-	15,385	-	-	-	-	15,385
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	18,309	-	2,014	169	4,364	11,753
OFF OF HUMAN DEVELOPMENT SERVICES	-	-	-	-	22,607	-	-	-	-	22,607
OFFICE OF THE SECRETARY	-	-	-	-	16,700	-	11,690	-	5,010	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	28,320	-	-	-	-	28,320
DEPT OF HOUSING & URBAN DEVELOPMENT	-	-	-	-	19,190	-	16,325	-	-	2,865
DEPARTMENT OF THE INTERIOR, TOTAL	7,756	4,055	3,701	-	3,694	3,000	499	-	195	-
BUREAU OF MINES	3,750	3,750	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	3,764	305	3,459	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	3,150	3,000	-	-	150	-
OFFICE OF THE SECRETARY	242	-	242	-	484	-	484	-	-	-
WATER AND POWER RESOURCES SERVICE	-	-	-	-	60	-	15	-	45	-
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	15,282	-	750	1,500	4,500	8,532
FEDERAL PRISON SYSTEM	-	-	-	-	1,057	-	400	-	-	657
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	1,000	-	-	-	-	1,000
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	13,225	-	350	1,500	4,500	5,875
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	29,337	-	29,315	-	22	-
BUREAU OF LABOR STATISTICS	-	-	-	-	879	-	879	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	4,900	-	4,900	-	-	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	11,142	-	11,120	-	22	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	3,055	-	3,055	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	8,300	-	8,300	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,061	-	1,061	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	1,559	-	272	-	-	1,237
DEPARTMENTAL FUNDS	-	-	-	-	1,559	-	272	-	-	1,237

CONTINUED ON NEXT PAGE

TABLE C-28. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	1,105	-	1,105	-	18,964	-	11,255	9	7,406	294
COAST GUARD	-	-	-	-	100	-	100	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	92	-	92	-	294	-	-	-	-	294
FEDERAL RAILROAD ADMINISTRATION	26	-	26	-	9	-	-	9	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	-	-	-	-	15,729	-	9,295	-	6,433	-
OFFICE OF THE SECRETARY	-	-	-	-	340	-	340	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	987	-	987	-	2,493	-	1,520	-	973	-
DEPARTMENT OF THE TREASURY, TOTAL	2,062	262	1,800	-	2,445	-	-	-	44	2,401
INTERNAL REVENUE SERVICE	2,062	262	1,800	-	2,445	-	-	-	44	2,401
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	2,029	-	1,014	1,014	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	300	-	300	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	1,210	-	1,210	-	-	-
FEDERAL COMMUNICATIONS COMMISSION	7	-	7	-	830	-	804	-	-	26
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	707	622	85	-	1,829	-	444	835	547	3
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	1,321	-	1,321	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	4,375	-	4,375	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	900	-	900	-	2,500	-	-	-	-	2,500
AGENCY FOR INTERNAT'L DEVELOPMENT ..	900	-	900	-	2,500	-	-	-	-	2,500
INTERSTATE COMMERCE COMMISSION	50	-	50	-	100	-	100	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	6,862	5,112	1,475	275	300	-	30	-	30	240
NATIONAL SCIENCE FOUNDATION	66,912	36,819	29,793	300	22,882	5,470	6,555	1,080	2,607	7,170
SMITHSONIAN INSTITUTION	-	-	-	-	18,895	9,159	-	-	-	9,736
TENNESSEE VALLEY AUTHORITY	-	-	-	-	100	-	100	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	212	112	20	80	135	-	68	67	-	-
US INTERNATIONAL TRADE COMMISSION	-	-	-	-	3,926	-	3,926	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-29. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	4,688,153	1,193,332	326,169	70,352	2,322,233	436,824	279,760	7,509	23,875	28,099
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	275,650	179,538	2,588	-	90,245	-	118	-	451	2,710
ECONOMICS & STATISTICS SERVICE	6,592	5,980	-	-	612	-	-	-	-	-
FOREST SERVICE	33,727	28,328	67	-	5,003	-	29	-	91	209
OFF OF INTERNAT'L COOPERATION & DEV	2,336	334	-	-	-	-	-	-	-	2,002
SCIENCE & EDUCATION ADMINISTRATION .	232,995	144,896	2,521	-	84,630	-	89	-	360	499
AGRICULTURAL RESEARCH	157,773	142,185	2,521	-	12,339	-	89	-	140	499
AGRICULTURAL COOPERATIVE RESEARCH	75,222	2,711	-	-	72,291	-	-	-	220	-
DEPARTMENT OF COMMERCE, TOTAL	29,907	23,444	2,703	-	3,072	-	435	-	-	253
BUREAU OF THE CENSUS	543	187	-	-	356	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	300	2	20	-	100	-	178	-	-	-
MARITIME ADMINISTRATION	2,000	200	1,700	-	100	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	12,784	12,158	90	-	536	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	13,997	10,867	893	-	1,980	-	257	-	-	-
OFFICE OF THE SECRETARY	283	30	-	-	-	-	-	-	-	253
DEPARTMENT OF DEFENSE, TOTAL	540,341	198,696	87,503	-	208,336	24,177	13,118	1,035	-	7,476
DEPARTMENT OF THE ARMY	132,190	82,544	11,058	-	33,922	45	2,842	-	-	1,779
DEPARTMENT OF THE NAVY	214,900	82,259	24,539	-	100,197	-	4,405	450	-	3,050
DEPARTMENT OF THE AIR FORCE	108,200	24,284	23,071	-	55,327	-	3,339	35	-	2,144
DEFENSE AGENCIES	85,051	9,609	28,835	-	18,890	24,132	2,532	550	-	503
DEPARTMENT OF EDUCATION, TOTAL	17,583	525	875	-	9,633	-	5,599	-	951	-
DEPARTMENT OF ENERGY	523,136	5,646	4,280	58,342	116,009	331,311	1,790	5,587	-	171
DEPT OF HLTH & HUMAN SERVICES, TOTAL .	1,762,668	362,882	17,707	10,258	1,120,999	6,940	213,783	347	20,212	9,540
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	104,736	36,717	37	-	51,912	-	12,718	-	2,273	1,079
HEALTH SERVICES ADMINISTRATION	2,032	2,032	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,642,341	319,641	15,778	10,258	1,062,958	6,940	200,328	347	17,939	8,152
OFFICE OF ASST'T SECY FOR HEALTH ...	11,560	4,392	1,892	-	4,230	-	737	-	-	309
OFFICE OF THE SECRETARY	1,999	100	-	-	1,899	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	71,634	61,797	1,994	-	6,792	-	-	-	230	331
BUREAU OF MINES	11,500	11,500	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	47,319	44,919	-	-	2,400	-	-	-	-	-
OFFICE OF THE SECRETARY	2,233	930	472	-	-	-	-	-	-	331
OFFICE OF WATER RSCH & TECHNOLOGY ..	6,600	800	1,500	-	4,300	-	-	-	-	-
US FISH & WILDLIFE SERVICE	3,782	3,448	22	-	82	-	-	-	230	-
WATER AND POWER RESOURCES SERVICE ..	200	200	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	9,525	80	-	-	3,304	-	5,618	-	523	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	9,525	80	-	-	3,304	-	5,618	-	523	-
DEPARTMENT OF LABOR, TOTAL	3,876	1,246	-	-	2,169	-	461	-	-	-
EMPLOYMENT & TRAINING ADMIN	3,876	1,246	-	-	2,169	-	461	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	1,731	1,573	85	-	-	-	73	-	-	-
INTERNAL REVENUE SERVICE	1,731	1,573	85	-	-	-	73	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	13,600	6,070	2,830	-	4,700	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	2,642	1,268	-	-	1,284	-	90	-	-	-
FEDERAL TRADE COMMISSION	1,495	1,495	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	100	100	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	559,113	225,454	194,642	-	112,751	15,623	8,457	300	157	1,729
NATIONAL SCIENCE FOUNDATION	815,246	68,086	10,962	1,752	642,924	59,773	30,218	240	1,351	940
SMITHSONIAN INSTITUTION	41,006	36,557	-	-	-	-	-	-	-	4,449
TENNESSEE VALLEY AUTHORITY	4,600	4,600	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	14,300	14,275	-	-	25	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-30. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	5,036,672	1,299,146	305,534	90,901	2,524,146	498,310	284,464	7,697	24,816	31,663
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	319,260	211,425	4,508	-	99,524	-	196	-	585	3,022
ECONOMICS & STATISTICS SERVICE	3,598	7,587	-	-	1,011	-	-	-	-	-
FOREST SERVICE	36,900	30,896	73	-	5,562	-	38	-	102	229
OFF OF INTERNAT'L COOPERATION & DEV	2,574	372	-	-	-	-	-	-	-	2,202
SCIENCE & EDUCATION ADMINISTRATION	271,188	172,570	4,435	-	92,951	-	158	-	483	591
AGRICULTURAL RESEARCH	139,550	169,664	4,435	-	14,455	-	158	-	246	591
AGRICULTURAL COOPERATIVE RESEARCH	31,638	2,906	-	-	78,495	-	-	-	237	-
DEPARTMENT OF COMMERCE, TOTAL	32,210	27,471	1,654	-	2,646	-	397	-	-	42
BUREAU OF THE CENSUS	624	259	-	-	365	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	200	2	-	-	75	-	123	-	-	-
MARITIME ADMINISTRATION	700	70	595	-	35	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	15,974	15,274	100	-	600	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	14,665	11,861	959	-	1,571	-	274	-	-	-
OFFICE OF THE SECRETARY	47	5	-	-	-	-	-	-	-	42
DEPARTMENT OF DEFENSE, TOTAL	612,925	215,855	89,333	7	254,987	29,405	14,018	730	-	8,590
DEPARTMENT OF THE ARMY	143,135	87,411	10,011	-	41,964	105	1,821	-	-	1,823
DEPARTMENT OF THE NAVY	240,400	91,472	22,437	-	118,140	-	4,770	185	-	3,396
DEPARTMENT OF THE AIR FORCE	127,700	26,130	29,070	-	65,830	100	4,000	40	-	2,530
DEFENSE AGENCIES	101,690	10,842	27,815	7	29,053	29,200	3,427	505	-	841
DEPARTMENT OF EDUCATION, TOTAL	17,338	500	800	-	9,575	-	5,563	-	900	-
DEPARTMENT OF ENERGY	594,696	6,831	3,531	66,865	132,804	376,364	2,258	5,903	-	140
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,371,632	383,600	18,562	12,220	1,198,788	7,563	217,908	520	21,685	10,786
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	107,846	41,452	-	-	50,810	-	12,421	-	2,060	1,103
HEALTH SERVICES ADMINISTRATION	1,650	1,650	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,745,645	335,300	17,202	12,220	1,140,049	7,563	204,669	520	19,625	8,497
OFFICE OF ASST'T SECY FOR HEALTH	14,391	5,097	1,360	-	5,930	-	818	-	-	1,186
OFFICE OF THE SECRETARY	2,100	101	-	-	1,999	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	77,343	69,680	695	-	4,151	-	-	-	-	2,817
BUREAU OF MINES	12,400	12,400	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	54,392	52,017	-	-	2,375	-	-	-	-	-
OFFICE OF THE SECRETARY	3,929	991	120	-	-	-	-	-	-	2,817
OFFICE OF WATER RSCH & TECHNOLOGY	2,508	272	545	-	1,691	-	-	-	-	-
US FISH & WILDLIFE SERVICE	3,915	3,800	30	-	85	-	-	-	-	-
WATER AND POWER RESOURCES SERVICE	200	200	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	6,864	55	-	-	2,313	-	4,266	-	150	80
OFF OF JUSTICE ASSIST, RSCH, & STAT	6,864	55	-	-	2,313	-	4,266	-	150	80
DEPARTMENT OF LABOR, TOTAL	3,479	926	-	-	2,193	-	360	-	-	-
EMPLOYMENT & TRAINING ADMIN	3,479	926	-	-	2,193	-	360	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	500	500	-	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	500	500	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	2,282	2,214	68	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	2,282	2,214	68	-	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	14,200	6,496	3,994	-	3,710	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,670	1,281	-	-	1,298	-	91	-	-	-
FEDERAL TRADE COMMISSION	2,051	2,051	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	100	100	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	540,394	224,351	170,780	-	122,000	12,958	8,173	294	145	1,693
NATIONAL SCIENCE FOUNDATION	373,640	74,380	11,609	1,809	690,112	62,020	31,234	240	1,351	885
SMITHSONIAN INSTITUTION	45,188	41,575	-	-	-	-	-	-	-	3,613
TENNESSEE VALLEY AUTHORITY	4,900	4,900	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	15,000	14,955	-	-	45	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. -SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-31. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	5,550,973	1,424,158	353,593	93,929	2,760,851	550,369	304,741	7,648	27,482	28,202
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	362,893	231,105	4,922	-	122,569	-	214	-	647	3,436
ECONOMICS & STATISTICS SERVICE	8,598	8,136	-	-	462	-	-	-	-	-
FOREST SERVICE	40,500	33,586	73	-	6,468	-	42	-	102	229
OFF OF INTERNAT'L COOPERATION & DEV	2,997	408	-	-	-	-	-	-	-	2,589
SCIENCE & EDUCATION ADMINISTRATION	310,798	188,975	4,849	-	115,639	-	172	-	545	618
AGRICULTURAL RESEARCH	208,809	185,456	4,849	-	17,445	-	172	-	269	618
AGRICULTURAL COOPERATIVE RESEARCH	101,989	3,519	-	-	98,194	-	-	-	276	-
DEPARTMENT OF COMMERCE, TOTAL	36,670	31,914	1,676	-	2,761	-	319	-	-	-
BUREAU OF THE CENSUS	624	257	-	-	367	-	-	-	-	-
MARITIME ADMINISTRATION	400	50	310	-	40	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	18,896	18,046	250	-	600	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	16,750	13,561	1,116	-	1,754	-	319	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	721,990	255,384	107,313	-	314,425	20,526	18,183	135	-	6,024
DEPARTMENT OF THE ARMY	192,400	107,470	15,950	-	63,599	-	3,214	-	-	2,167
DEPARTMENT OF THE NAVY	282,000	98,846	31,681	-	143,773	-	6,072	95	-	1,533
DEPARTMENT OF THE AIR FORCE	153,700	34,495	34,327	-	77,694	100	4,720	40	-	2,324
DEFENSE AGENCIES	93,890	14,573	25,355	-	29,359	20,426	4,177	-	-	-
DEPARTMENT OF EDUCATION, TOTAL	13,489	500	500	-	7,525	-	4,214	-	750	-
DEPARTMENT OF ENERGY	681,712	8,099	2,092	77,026	150,004	436,505	1,868	6,094	-	24
DEPT OF HLTH & HUMAN SERVICES, TOTAL	2,016,970	419,386	21,903	15,069	1,281,955	9,100	233,230	765	24,026	11,536
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	124,138	56,873	-	-	52,274	-	11,810	-	2,071	1,110
NATIONAL INSTITUTES OF HEALTH	1,883,650	359,749	20,720	15,069	1,226,290	9,100	220,764	765	21,955	9,238
OFFICE OF ASST'T SECY FOR HEALTH	8,182	2,714	1,183	-	2,441	-	656	-	-	1,188
OFFICE OF THE SECRETARY	1,000	50	-	-	950	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	79,246	76,413	148	-	2,455	-	-	-	230	-
BUREAU OF MINES	13,700	13,700	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	60,725	58,350	-	-	2,375	-	-	-	-	-
OFFICE OF THE SECRETARY	968	840	128	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	3,723	3,393	20	-	80	-	-	-	230	-
WATER AND POWER RESOURCES SERVICE	130	130	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	5,650	200	-	-	1,465	-	3,785	-	200	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	5,650	200	-	-	1,465	-	3,785	-	200	-
DEPARTMENT OF LABOR, TOTAL	2,199	1,186	-	-	1,013	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	2,199	1,186	-	-	1,013	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	2,380	1,197	1,107	-	-	-	76	-	-	-
INTERNAL REVENUE SERVICE	2,380	1,197	1,107	-	-	-	76	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	13,800	5,930	3,582	-	4,288	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,670	1,281	-	-	1,298	-	91	-	-	-
FEDERAL TRADE COMMISSION	2,153	2,153	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	100	100	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	593,918	249,056	191,607	-	127,000	15,229	8,970	294	169	1,593
NATIONAL SCIENCE FOUNDATION	945,444	75,210	18,743	1,834	744,048	69,009	33,791	360	1,460	989
SMITHSONIAN INSTITUTION	50,489	45,989	-	-	-	-	-	-	-	4,500
TENNESSEE VALLEY AUTHORITY	5,000	5,000	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	15,100	15,055	-	-	45	-	-	-	-	-

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1 INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-12. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1980, 1981, AND 1982

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1980	ESTIMATES	
		1981	1982
TOTAL, ALL FIELDS	4,688,153	5,036,672	5,550,973
LIFE SCIENCES, TOTAL	2,054,425	2,203,898	2,407,101
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	1,099,856	1,181,066	1,282,846
ENVIRONMENTAL BIOLOGY	86,118	91,480	99,146
AGRICULTURAL	153,460	176,455	203,462
MEDICAL	656,963	696,865	761,474
LIFE SCIENCES, NEC	58,028	58,032	60,173
PSYCHOLOGY, TOTAL	84,206	87,394	98,275
BIOLOGICAL ASPECTS	30,160	30,578	31,276
SOCIAL ASPECTS	31,259	30,196	36,678
PSYCHOLOGICAL SCIENCES, NEC	22,787	26,620	30,321
PHYSICAL SCIENCES, TOTAL	1,221,660	1,314,413	1,481,331
ASTRONOMY	279,420	251,721	289,945
CHEMISTRY	257,056	290,474	326,882
PHYSICS	669,093	753,424	841,744
PHYSICAL SCIENCES, NEC	16,091	18,794	22,760
ENVIRONMENTAL SCIENCES, TOTAL	534,213	560,326	615,918
ATMOSPHERIC	187,218	181,165	200,120
GEOLOGICAL	198,402	211,500	225,139
OCEANOGRAPHY	134,294	150,941	175,275
ENVIRONMENTAL SCIENCES, NEC	14,299	16,720	15,384
MATHEMATICS & COMPUTER SCIENCES, TOTAL	116,928	138,571	162,731
MATHEMATICS	67,093	77,924	94,843
COMPUTER SCIENCES	46,617	53,100	59,886
MATHEMATICS & COMPUTER SCIENCES, NEC	3,218	7,547	8,002
ENGINEERING, TOTAL	465,630	520,040	611,840
AERONAUTICAL	104,157	115,511	131,399
ASTRONAUTICAL	27,184	29,006	32,077
CHEMICAL	26,148	28,695	34,078
CIVIL	22,110	21,515	27,073
ELECTRICAL	70,841	77,563	100,475
MECHANICAL	42,227	50,090	63,859
METALLURGY & MATERIALS	121,337	141,300	154,869
ENGINEERING, NEC	51,626	56,360	68,020
SOCIAL SCIENCES, TOTAL	147,180	144,485	125,054
ANTHROPOLOGY	14,234	13,430	15,021
ECONOMICS	40,010	40,891	35,166
POLITICAL SCIENCE	7,403	4,546	2,257
SOCIOLOGY	25,377	25,429	20,933
SOCIAL SCIENCES, NEC	60,156	60,189	51,677
OTHER SCIENCES, NEC	63,911	67,545	48,723

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-33. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	4,688,153	2,054,425	84,206	1,221,660	534,213	116,928	465,630	147,180	63,911
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	275,650	207,817	34	25,767	4,377	857	14,465	22,333	-
ECONOMICS & STATISTICS SERVICE	6,592	-	-	-	-	-	-	6,592	-
FOREST SERVICE	33,727	22,092	34	1,956	2,900	540	4,215	1,990	-
OFF OF INTERNAT'L COOPERATION & DEV	2,336	2,336	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	232,995	183,389	-	23,811	1,477	317	10,250	13,751	-
AGRICULTURAL RESEARCH	157,773	126,852	-	20,825	1,103	317	8,203	473	-
AGRICULTURAL COOPERATIVE RESEARCH	75,222	56,537	-	2,986	374	-	2,047	13,278	-
DEPARTMENT OF COMMERCE, TOTAL	29,907	-	104	12,385	11,903	1,921	3,294	300	-
BUREAU OF THE CENSUS	543	-	104	-	-	439	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	300	-	-	-	-	-	-	300	-
MARITIME ADMINISTRATION	2,000	-	-	-	-	-	2,000	-	-
NATIONAL BUREAU OF STANDARDS	12,784	-	-	11,030	50	812	892	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	13,997	-	-	1,072	11,853	670	402	-	-
OFFICE OF THE SECRETARY	283	-	-	283	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	540,341	48,704	18,490	167,131	83,170	47,345	169,737	4,434	1,330
DEPARTMENT OF THE ARMY	132,190	26,473	4,183	46,025	9,264	7,621	38,535	89	-
DEPARTMENT OF THE NAVY	214,900	15,836	4,350	71,953	53,440	15,297	52,138	1,886	-
DEPARTMENT OF THE AIR FORCE	108,200	5,344	6,015	24,822	9,386	10,195	52,438	-	-
DEFENSE AGENCIES	85,051	1,051	3,942	24,331	11,080	14,232	26,626	2,459	1,330
DEPARTMENT OF EDUCATION, TOTAL	17,583	-	-	-	-	-	-	17,583	-
DEPARTMENT OF ENERGY	523,136	29,377	-	432,140	8,226	10,196	42,567	-	633
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,762,668	1,562,818	49,721	53,727	-	4,874	26,009	34,237	31,282
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	104,736	59,731	30,035	771	-	196	36	12,175	1,792
HEALTH SERVICES ADMINISTRATION	2,032	2,032	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,642,341	1,501,095	19,686	52,956	-	4,678	25,973	8,503	29,490
OFFICE OF ASST'T SECY FOR HEALTH	11,560	-	-	-	-	-	-	11,560	-
OFFICE OF THE SECRETARY	1,999	-	-	-	-	-	-	1,999	-
DEPARTMENT OF THE INTERIOR, TOTAL	71,634	4,651	-	7,524	48,800	1,865	6,892	1,417	485
BUREAU OF MINES	11,500	-	-	4,450	1,350	600	5,100	-	-
GEOLOGICAL SURVEY	47,319	-	-	2,571	43,891	857	-	-	-
OFFICE OF THE SECRETARY	2,233	-	-	-	1,185	349	-	699	-
OFFICE OF WATER RSCH & TECHNOLOGY	6,600	869	-	503	2,374	59	1,682	718	395
US FISH & WILDLIFE SERVICE	3,782	3,782	-	-	-	-	-	-	-
WATER AND POWER RESOURCES SERVICE	200	-	-	-	-	-	110	-	90
DEPARTMENT OF JUSTICE, TOTAL	9,525	-	1,166	-	75	-	-	8,284	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	9,525	-	1,166	-	75	-	-	8,284	-
DEPARTMENT OF LABOR, TOTAL	3,876	-	-	-	-	-	-	3,876	-
EMPLOYMENT & TRAINING ADMIN	3,876	-	-	-	-	-	-	3,876	-
DEPARTMENT OF THE TREASURY, TOTAL	1,731	-	-	-	-	254	-	1,477	-
INTERNAL REVENUE SERVICE	1,731	-	-	-	-	254	-	1,477	-
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	13,600	9,029	-	2,259	2,316	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,642	234	-	2,408	-	-	-	-	-
FEDERAL TRADE COMMISSION	1,495	-	-	-	-	-	-	1,495	-
LIBRARY OF CONGRESS	100	-	-	-	-	-	-	-	100
NATIONAL AERONAUTICS & SPACE ADMIN	559,113	13,742	649	309,019	119,070	1,847	113,294	187	1,305
NATIONAL SCIENCE FOUNDATION	815,246	148,780	11,875	198,604	253,223	47,769	89,372	36,844	28,779
SMITHSONIAN INSTITUTION	41,006	15,744	-	7,596	3,053	-	-	14,613	-
TENNESSEE VALLEY AUTHORITY	4,600	1,400	-	3,100	-	-	-	100	-
VETERANS ADMINISTRATION	14,300	12,133	2,167	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-34. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	5,036,672	2,203,858	87,394	1,314,413	560,326	138,571	520,040	144,485	67,545
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	319,260	240,247	37	30,440	4,910	969	16,721	25,936	-
ECONOMICS & STATISTICS SERVICE	8,598	-	-	-	-	-	-	8,598	-
FOREST SERVICE	36,900	24,170	37	2,140	3,173	590	4,614	2,176	-
OFF OF INTERNAT'L COOPERATION & DEV	2,574	2,574	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION .	271,188	213,503	-	28,300	1,737	379	12,107	15,152	-
AGRICULTURAL RESEARCH	189,550	152,400	-	25,019	1,326	379	9,857	569	-
AGRICULTURAL COOPERATIVE RESEARCH	81,639	61,103	-	3,281	411	-	2,250	14,593	-
DEPARTMENT OF COMMERCE, TOTAL	32,210	-	119	13,961	12,370	2,591	2,969	200	-
BUREAU OF THE CENSUS	624	-	119	-	-	505	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	200	-	-	-	-	-	-	200	-
MARITIME ADMINISTRATION	700	-	-	-	-	-	700	-	-
NATIONAL BUREAU OF STANDARDS	15,974	-	-	12,769	-	1,369	1,837	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	14,665	-	-	1,146	12,370	717	432	-	-
OFFICE OF THE SECRETARY	47	-	-	47	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	612,925	55,303	19,769	193,046	82,414	63,855	191,844	4,421	2,273
DEPARTMENT OF THE ARMY	143,135	30,109	4,237	48,586	10,273	9,286	41,491	153	-
DEPARTMENT OF THE NAVY	240,400	17,204	5,733	80,968	59,029	18,712	55,813	2,941	-
DEPARTMENT OF THE AIR FORCE	127,700	6,600	6,229	29,470	10,959	11,094	63,339	-	-
DEFENSE AGENCIES	101,690	1,390	3,570	34,022	2,143	25,763	31,202	1,327	2,273
DEPARTMENT OF EDUCATION, TOTAL	17,339	-	-	-	-	-	-	17,338	-
DEPARTMENT OF ENERGY	594,696	31,689	-	490,452	9,790	11,365	50,195	-	1,215
DEPT OF HLTH & HUMAN SERVICES, TOTAL .	1,871,632	1,660,410	51,264	56,950	-	5,051	27,615	37,180	33,162
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	107,846	63,240	30,316	741	-	163	34	11,612	1,740
HEALTH SERVICES ADMINISTRATION	1,650	1,650	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,745,645	1,595,520	20,948	56,209	-	4,888	27,581	9,077	31,422
OFFICE OF ASST'T SECY FOR HEALTH ...	14,391	-	-	-	-	-	-	14,391	-
OFFICE OF THE SECRETARY	2,100	-	-	-	-	-	-	2,100	-
DEPARTMENT OF THE INTERIOR, TOTAL	77,343	4,244	-	8,311	55,423	1,990	6,303	831	241
BUREAU OF MINES	12,400	-	-	4,825	1,425	600	5,550	-	-
GEOLOGICAL SURVEY	54,392	-	-	3,294	49,999	1,099	-	-	-
OFFICE OF THE SECRETARY	3,928	-	-	-	3,095	278	-	555	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	2,508	329	-	192	934	13	643	276	151
US FISH & WILDLIFE SERVICE	3,915	3,915	-	-	-	-	-	-	-
WATER AND POWER RESOURCES SERVICE ..	200	-	-	-	-	-	110	-	90
DEPARTMENT OF JUSTICE, TOTAL	5,864	-	833	-	250	-	-	5,781	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	6,864	-	833	-	250	-	-	5,781	-
DEPARTMENT OF LABOR, TOTAL	3,479	-	30	-	-	-	-	3,449	-
EMPLOYMENT & TRAINING ADMIN	3,479	-	30	-	-	-	-	3,449	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	500	-	-	-	-	-	500	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	500	-	-	-	-	-	500	-	-
DEPARTMENT OF THE TREASURY, TOTAL	2,282	-	-	-	-	251	-	2,031	-
INTERNAL REVENUE SERVICE	2,282	-	-	-	-	251	-	2,031	-
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	14,200	6,155	-	4,470	3,250	-	325	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	2,670	237	-	2,433	-	-	-	-	-
FEDERAL TRADE COMMISSION	2,051	-	-	-	-	-	-	2,051	-
LIBRARY OF CONGRESS	100	-	-	-	-	-	-	-	100
NATIONAL AERONAUTICS & SPACE ADMIN ...	540,394	13,772	700	283,322	115,196	2,000	123,804	200	1,400
NATIONAL SCIENCE FOUNDATION	873,640	161,730	10,365	219,548	273,401	50,499	99,764	29,179	29,154
SMITHSONIAN INSTITUTION	45,188	17,788	-	8,280	3,332	-	-	15,798	-
TENNESSEE VALLEY AUTHORITY	4,900	1,600	-	3,200	-	-	-	100	-
VETERANS ADMINISTRATION	15,000	10,723	4,277	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-35. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	5,550,973	2,407,101	98,275	1,481,331	615,918	162,731	611,840	125,054	48,723
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	362,893	275,621	40	33,711	5,419	1,066	18,527	28,509	-
ECONOMICS & STATISTICS SERVICE	8,598	-	-	-	-	-	-	8,598	-
FOREST SERVICE	40,500	26,528	40	2,349	3,482	648	5,063	2,390	-
OFF OF INTERNAT'L COOPERATION & DEV	2,997	2,997	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	310,798	246,096	-	31,362	1,937	418	13,464	17,521	-
AGRICULTURAL RESEARCH	208,809	167,881	-	27,563	1,461	418	10,859	627	-
AGRICULTURAL COOPERATIVE RESEARCH	101,989	78,215	-	3,799	476	-	2,605	16,894	-
DEPARTMENT OF COMMERCE, TOTAL	36,670	-	119	15,884	14,072	3,093	3,502	-	-
BUREAU OF THE CENSUS	624	-	119	-	-	505	-	-	-
MARITIME ADMINISTRATION	400	-	-	-	-	-	400	-	-
NATIONAL BUREAU OF STANDARDS	18,896	-	-	14,545	-	1,751	2,600	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	16,750	-	-	1,339	14,072	837	502	-	-
DEPARTMENT OF DEFENSE, TOTAL	721,990	70,925	26,529	208,040	103,356	71,600	237,153	4,203	184
DEPARTMENT OF THE ARMY	192,400	40,000	5,468	64,483	13,337	10,914	58,029	169	-
DEPARTMENT OF THE NAVY	282,000	19,615	7,417	89,973	70,257	23,209	69,430	2,099	-
DEPARTMENT OF THE AIR FORCE	153,700	9,620	7,181	32,836	13,035	13,118	77,910	-	-
DEFENSE AGENCIES	93,890	1,690	6,463	20,748	6,727	24,359	31,784	1,935	184
DEPARTMENT OF EDUCATION, TOTAL	13,489	-	-	-	-	-	-	13,489	-
DEPARTMENT OF ENERGY	681,712	35,800	-	560,953	11,600	13,300	59,471	-	588
DEPT OF HLTH & HUMAN SERVICES, TOTAL	2,016,970	1,795,556	56,916	61,447	-	5,443	29,797	31,578	36,233
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	124,138	73,901	34,312	793	-	169	35	12,601	2,327
NATIONAL INSTITUTES OF HEALTH	1,883,650	1,721,655	22,604	60,654	-	5,274	29,762	9,795	33,906
OFFICE OF ASST'T SECY FOR HEALTH	8,182	-	-	-	-	-	-	8,182	-
OFFICE OF THE SECRETARY	1,000	-	-	-	-	-	-	1,000	-
DEPARTMENT OF THE INTERIOR, TOTAL	79,245	3,723	-	8,563	58,217	1,879	6,330	494	50
BUREAU OF MINES	13,700	-	-	5,450	1,400	600	6,250	-	-
GEOLOGICAL SURVEY	60,725	-	-	3,113	56,575	1,037	-	-	-
OFFICE OF THE SECRETARY	968	-	-	-	242	242	-	494	-
US FISH & WILDLIFE SERVICE	3,723	3,723	-	-	-	-	-	-	-
WATER AND POWER RESOURCES SERVICE	130	-	-	-	-	-	80	-	50
DEPARTMENT OF JUSTICE, TOTAL	5,650	-	450	-	-	-	-	5,200	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	5,650	-	450	-	-	-	-	5,200	-
DEPARTMENT OF LABOR, TOTAL	2,199	-	22	-	-	-	-	2,177	-
EMPLOYMENT & TRAINING ADMIN	2,199	-	22	-	-	-	-	2,177	-
DEPARTMENT OF THE TREASURY, TOTAL	2,380	-	-	-	-	262	-	2,118	-
INTERNAL REVENUE SERVICE	2,380	-	-	-	-	262	-	2,118	-
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	13,800	5,528	-	5,693	1,992	-	587	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,670	237	2,433	-	-	-	-	-	-
FEDERAL TRADE COMMISSION	2,153	-	-	-	-	-	-	2,153	-
LIBRARY OF CONGRESS	100	-	-	-	-	-	-	-	100
NATIONAL AERONAUTICS & SPACE ADMIN	593,019	14,638	750	320,981	116,845	2,100	136,004	225	1,475
NATIONAL SCIENCE FOUNDATION	945,444	172,858	7,030	254,224	300,859	63,988	120,469	15,923	10,093
SMITHSONIAN INSTITUTION	50,489	19,501	-	8,535	3,558	-	-	18,895	-
TENNESSEE VALLEY AUTHORITY	5,000	1,600	-	3,300	-	-	-	100	-
VETERANS ADMINISTRATION	15,100	11,114	3,986	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-36. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	84,206	30,160	31,259	22,787	2,054,425	1,099,856	86,118	153,460	656,963	58,028
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	34	-	34	-	207,817	32,671	20,729	151,588	2,829	-
FOREST SERVICE	34	-	34	-	22,092	11,637	10,455	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	2,336	-	-	2,336	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	183,389	21,034	10,274	149,252	2,829	-
AGRICULTURAL RESEARCH	-	-	-	-	126,852	13,954	10,274	102,497	127	-
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	56,537	7,080	-	46,755	2,702	-
DEPARTMENT OF COMMERCE, TOTAL	104	-	104	-	-	-	-	-	-	-
BUREAU OF THE CENSUS	104	-	104	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	18,490	264	16,542	1,684	48,704	15,936	4,248	-	28,520	-
DEPARTMENT OF THE ARMY	4,183	168	2,331	1,684	26,473	2,202	181	-	24,090	-
DEPARTMENT OF THE NAVY	4,350	-	4,350	-	15,836	10,502	1,955	-	3,379	-
DEPARTMENT OF THE AIR FORCE	6,015	-	6,015	-	5,344	3,232	2,112	-	-	-
DEFENSE AGENCIES	3,942	96	3,846	-	1,051	-	-	-	1,051	-
DEPARTMENT OF ENERGY	-	-	-	-	29,377	29,177	-	-	-	200
DEPT OF HLTH & HUMAN SERVICES, TOTAL	49,721	19,506	10,328	19,887	1,562,818	892,977	46	-	614,338	55,457
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	30,035	19,506	10,328	201	59,731	43,396	46	-	9,159	7,130
HEALTH SERVICES ADMINISTRATION	-	-	-	-	2,032	-	-	-	2,032	-
NATIONAL INSTITUTES OF HEALTH	19,686	-	-	19,686	1,501,055	849,581	-	-	603,147	48,327
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	4,651	4,599	-	-	26	26
OFFICE OF WATER RSCH & TECHNOLOGY	-	-	-	-	869	817	-	-	26	26
US FISH & WILDLIFE SERVICE	-	-	-	-	3,782	3,782	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	1,166	-	397	769	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	1,166	-	397	769	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	9,025	-	7,283	1,742	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	-	-	-	-	234	234	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	649	97	105	447	13,742	9,823	340	80	1,317	2,182
NATIONAL SCIENCE FOUNDATION	11,875	8,136	3,739	-	148,780	105,365	43,202	50	-	163
SMITHSONIAN INSTITUTION	-	-	-	-	15,744	5,474	10,270	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	1,400	1,400	-	-	-	-
VETERANS ADMINISTRATION	2,167	2,157	10	-	12,133	2,200	-	-	9,933	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-37. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	87,394	30,578	30,196	26,620	2,203,898	1,181,066	91,480	176,455	696,865	58,032
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	37	-	37	-	240,247	37,086	23,784	176,255	3,122	-
FOREST SERVICE	37	-	37	-	24,170	12,731	11,439	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	2,574	-	-	2,574	-	-
SCIENCE & EDUCATION ADMINISTRATION .	-	-	-	-	213,503	24,355	12,345	173,681	3,122	-
AGRICULTURAL RESEARCH	-	-	-	-	152,400	16,766	12,345	123,137	152	-
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	61,103	7,589	-	50,544	2,970	-
DEPARTMENT OF COMMERCE, TOTAL	119	-	119	-	-	-	-	-	-	-
BUREAU OF THE CENSUS	119	-	119	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	19,769	540	16,276	2,953	55,303	19,363	4,400	-	31,540	-
DEPARTMENT OF THE ARMY	4,237	160	2,390	1,687	30,109	2,531	299	-	27,279	-
DEPARTMENT OF THE NAVY	5,733	-	5,733	-	17,204	12,480	1,853	-	2,871	-
DEPARTMENT OF THE AIR FORCE	6,229	-	6,229	-	6,600	4,352	2,248	-	-	-
DEFENSE AGENCIES	3,570	380	1,924	1,266	1,390	-	-	-	1,390	-
DEPARTMENT OF ENERGY	-	-	-	-	31,689	31,489	-	-	-	200
DEPT OF HLTH & HUMAN SERVICES, TOTAL .	51,264	18,144	10,428	22,692	1,660,410	952,236	-	-	652,771	55,403
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	30,316	18,144	10,428	1,744	63,240	46,213	-	-	9,946	7,081
HEALTH SERVICES ADMINISTRATION	-	-	-	-	1,650	-	-	-	1,650	-
NATIONAL INSTITUTES OF HEALTH	20,948	-	-	20,948	1,595,520	906,023	-	-	641,175	48,322
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	4,244	4,225	-	-	9	9
OFFICE OF WATER RSCH & TECHNOLOGY ..	-	-	-	-	329	311	-	-	9	9
US FISH & WILDLIFE SERVICE	-	-	-	-	3,915	3,915	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	833	-	333	500	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	833	-	333	500	-	-	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	30	-	30	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	30	-	30	-	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	6,155	-	6,155	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	-	-	-	-	237	237	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	700	100	125	475	13,772	9,572	350	100	1,400	2,350
NATIONAL SCIENCE FOUNDATION	10,365	7,545	2,820	-	161,730	115,914	45,646	100	-	70
SMITHSONIAN INSTITUTION	-	-	-	-	17,788	6,643	11,145	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	1,600	1,600	-	-	-	-
VETERANS ADMINISTRATION	4,277	4,249	28	-	10,723	2,700	-	-	8,023	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-38. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	98,275	31,276	36,678	30,321	2,407,101	1,292,946	99,146	203,462	761,474	60,173
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	40	-	40	-	275,621	42,624	26,153	203,237	3,607	-
FOREST SERVICE	40	-	40	-	26,528	13,973	12,555	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	2,997	-	-	2,997	-	-
SCIENCE & EDUCATION ADMINISTRATION .	-	-	-	-	246,096	28,651	13,598	200,240	3,607	-
AGRICULTURAL RESEARCH	-	-	-	-	167,881	18,467	13,598	135,648	168	-
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	78,215	10,184	-	64,592	3,439	-
DEPARTMENT OF COMMERCE, TOTAL	119	-	119	-	-	-	-	-	-	-
BUREAU OF THE CENSUS	119	-	119	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	26,529	408	22,877	3,244	70,925	23,652	6,301	-	40,972	-
DEPARTMENT OF THE ARMY	5,468	160	3,033	2,275	40,000	3,601	386	-	36,013	-
DEPARTMENT OF THE NAVY	7,417	-	7,417	-	19,615	14,353	1,993	-	3,269	-
DEPARTMENT OF THE AIR FORCE	7,181	-	7,181	-	9,620	5,698	3,922	-	-	-
DEFENSE AGENCIES	6,463	248	5,246	969	1,690	-	-	-	1,690	-
DEPARTMENT OF ENERGY	-	-	-	-	35,800	35,600	-	-	-	200
DEPT OF HLTH & HUMAN SERVICES, TOTAL .	56,916	20,882	11,162	24,872	1,795,556	1,029,672	-	-	708,461	57,423
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	34,312	20,882	11,162	2,268	73,901	54,150	-	-	12,707	7,044
NATIONAL INSTITUTES OF HEALTH	22,604	-	-	22,604	1,721,655	975,522	-	-	695,754	50,379
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	3,723	3,723	-	-	-	-
US FISH & WILDLIFE SERVICE	-	-	-	-	3,723	3,723	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	450	-	-	450	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	450	-	-	450	-	-	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	22	-	-	22	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	22	-	-	22	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	5,528	-	5,528	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	2,433	-	1,200	1,233	237	237	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	750	115	135	500	14,638	10,239	375	125	1,450	2,450
NATIONAL SCIENCE FOUNDATION	7,030	5,900	1,130	-	172,858	124,065	48,593	100	-	100
SMITHSONIAN INSTITUTION	-	-	-	-	19,501	7,305	12,196	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	1,600	1,600	-	-	-	-
VETERANS ADMINISTRATION	3,986	3,971	15	-	11,114	4,130	-	-	6,984	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-39. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,221,660	279,420	257,056	669,093	16,091	534,213	187,218	198,402	134,294	14,299
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	25,767	-	24,032	1,735	-	4,377	2,231	2,146	-	-
FOREST SERVICE	1,956	-	1,483	473	-	2,900	911	1,989	-	-
SCIENCE & EDUCATION ADMINISTRATION	23,811	-	22,549	1,262	-	1,477	1,320	157	-	-
AGRICULTURAL RESEARCH	20,825	-	19,563	1,262	-	1,103	946	157	-	-
AGRICULTURAL COOPERATIVE RESEARCH	2,986	-	2,986	-	-	374	374	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	12,385	531	2,340	9,514	-	11,903	8,220	67	3,616	-
NATIONAL BUREAU OF STANDARDS	11,030	531	2,206	8,293	-	50	50	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,072	-	134	938	-	11,853	8,170	67	3,616	-
OFFICE OF THE SECRETARY	283	-	-	283	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	167,131	11,696	35,672	111,168	8,595	83,170	18,721	19,164	37,410	7,875
DEPARTMENT OF THE ARMY	46,025	-	12,734	24,696	8,595	9,264	6,087	2,721	-	456
DEPARTMENT OF THE NAVY	71,953	7,436	12,345	52,172	-	53,440	5,134	4,355	36,532	7,419
DEPARTMENT OF THE AIR FORCE	24,822	4,260	10,410	10,152	-	9,386	7,500	1,886	-	-
DEFENSE AGENCIES	24,331	-	183	24,148	-	11,080	-	10,202	878	-
DEPARTMENT OF ENERGY	432,140	-	62,108	369,232	800	8,226	-	7,726	-	500
DEPT OF HLTH & HUMAN SERVICES, TOTAL	53,727	-	47,406	6,321	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	771	-	771	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	52,956	-	46,635	6,321	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	7,524	-	5,323	1,001	1,200	48,800	214	44,558	2,285	1,743
BUREAU OF MINES	4,450	-	3,250	-	1,200	1,350	-	1,350	-	-
GEOLOGICAL SURVEY	2,571	-	1,714	857	-	43,891	-	41,635	2,256	-
OFFICE OF THE SECRETARY	-	-	-	-	-	1,185	-	-	-	1,185
OFFICE OF WATER RSCH & TECHNOLOGY	503	-	359	144	-	2,374	214	1,573	29	558
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	-	75	-	-	-	75
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	-	75	-	-	-	75
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	2,259	-	2,259	-	-	2,316	1,077	1,039	200	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,408	-	1,188	1,220	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	309,019	225,110	5,243	73,309	5,357	119,070	79,856	31,391	3,851	3,972
NATIONAL SCIENCE FOUNDATION	198,604	34,487	68,385	95,593	139	253,223	76,784	90,195	86,110	134
SMITHSONIAN INSTITUTION	7,596	7,596	-	-	-	3,053	115	2,116	822	-
TENNESSEE VALLEY AUTHORITY	3,100	-	3,100	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-40. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,314,413	251,721	290,474	753,424	18,794	560,326	181,165	211,500	150,941	16,720
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	30,440	-	28,408	2,032	-	4,910	2,545	2,365	-	-
FOREST SERVICE	2,140	-	1,623	517	-	3,173	996	2,177	-	-
SCIENCE & EDUCATION ADMINISTRATION	28,300	-	26,785	1,515	-	1,737	1,549	188	-	-
AGRICULTURAL RESEARCH	25,019	-	23,504	1,515	-	1,326	1,138	188	-	-
AGRICULTURAL COOPERATIVE RESEARCH	3,281	-	3,281	-	-	411	411	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	13,961	419	2,657	10,885	-	12,370	8,426	72	3,872	-
NATIONAL BUREAU OF STANDARDS	12,768	419	2,514	9,835	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,146	-	143	1,003	-	12,370	8,426	72	3,872	-
OFFICE OF THE SECRETARY	47	-	-	47	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	193,046	13,279	42,820	127,818	9,129	82,414	20,560	13,228	40,294	8,332
DEPARTMENT OF THE ARMY	48,586	-	14,793	26,075	7,718	10,273	6,749	3,184	-	340
DEPARTMENT OF THE NAVY	80,968	8,534	15,968	56,466	-	59,029	5,710	5,320	40,007	7,992
DEPARTMENT OF THE AIR FORCE	29,470	4,745	11,827	12,898	-	10,969	8,101	2,868	-	-
DEFENSE AGENCIES	34,022	-	232	32,379	1,411	2,143	-	1,856	287	-
DEPARTMENT OF ENERGY	490,452	-	70,921	418,031	1,500	9,780	-	9,280	-	500
DEPT OF HLTH & HUMAN SERVICES, TOTAL	56,950	-	50,317	6,633	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	741	-	741	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	56,209	-	49,576	6,633	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	8,311	-	5,958	1,153	1,200	55,423	82	49,551	2,482	3,308
BUREAU OF MINES	4,825	-	3,625	-	1,200	1,425	-	1,425	-	-
GEOLOGICAL SURVEY	3,294	-	2,196	1,098	-	49,999	-	47,529	2,470	-
OFFICE OF THE SECRETARY	-	-	-	-	-	3,095	-	-	-	3,095
OFFICE OF WATER RSCH & TECHNOLOGY	192	-	137	55	-	904	82	597	12	213
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	-	250	-	-	-	250
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	-	250	-	-	-	250
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	4,470	-	4,470	-	-	3,250	1,875	1,375	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,433	-	1,200	1,233	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	283,322	191,660	6,511	78,631	6,520	115,196	68,509	38,783	3,704	4,200
NATIONAL SCIENCE FOUNDATION	219,548	38,083	74,012	107,008	445	273,401	79,044	94,572	99,655	130
SMITHSONIAN INSTITUTION	8,280	8,280	-	-	-	3,332	124	2,274	934	-
TENNESSEE VALLEY AUTHORITY	3,200	-	3,200	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-41. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,491,331	289,945	326,882	841,744	22,760	615,918	200,120	225,139	175,275	15,384
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	33,711	-	31,474	2,237	-	5,419	2,822	2,597	-	-
FOREST SERVICE	2,349	-	1,782	567	-	3,482	1,093	2,389	-	-
SCIENCE & EDUCATION ADMINISTRATION	31,362	-	29,692	1,670	-	1,937	1,729	208	-	-
AGRICULTURAL RESEARCH	27,563	-	25,893	1,670	-	1,461	1,253	208	-	-
AGRICULTURAL COOPERATIVE RESEARCH	3,799	-	3,799	-	-	476	476	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	15,884	430	2,915	12,539	-	14,072	9,466	84	4,522	-
NATIONAL BUREAU OF STANDARDS	14,545	430	2,748	11,367	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,339	-	167	1,172	-	14,072	9,466	84	4,522	-
DEPARTMENT OF DEFENSE, TOTAL	208,040	15,425	50,888	130,543	11,184	103,356	25,410	15,425	52,179	10,342
DEPARTMENT OF THE ARMY	64,483	-	18,985	34,562	10,936	13,337	8,909	4,076	-	352
DEPARTMENT OF THE NAVY	89,973	10,229	18,397	61,347	-	70,257	6,596	5,926	47,869	9,866
DEPARTMENT OF THE AIR FORCE	32,836	5,196	13,344	14,296	-	13,035	9,905	3,130	-	-
DEFENSE AGENCIES	20,748	-	162	20,338	248	6,727	-	2,293	4,310	124
DEPARTMENT OF ENERGY	560,953	-	79,839	479,914	1,200	11,600	-	11,300	-	300
DEPT OF HLTH & HUMAN SERVICES, TOTAL	61,447	-	54,289	7,158	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	793	-	793	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	60,654	-	53,496	7,158	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	8,563	-	6,325	1,038	1,200	58,217	-	54,950	3,025	242
BUREAU OF MINES	5,450	-	4,250	-	1,200	1,400	-	1,400	-	-
GEOLOGICAL SURVEY	3,113	-	2,075	1,038	-	56,575	-	53,550	3,025	-
OFFICE OF THE SECRETARY	-	-	-	-	-	242	-	-	-	242
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	5,693	-	5,693	-	-	1,992	1,992	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	320,981	223,809	4,795	83,718	8,659	116,845	74,179	33,395	4,921	4,350
NATIONAL SCIENCE FOUNDATION	254,224	41,746	87,364	124,597	517	300,559	86,113	104,962	109,534	150
SMITHSONIAN INSTITUTION	8,535	8,535	-	-	-	3,558	138	2,426	994	-
TENNESSEE VALLEY AUTHORITY	3,300	-	3,300	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE C-42. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	465,630	104,157	27,184	26,148	22,110	70,841	42,227	121,337	51,625
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	14,465	-	-	1,395	1,261	158	1,125	-	10,526
FOREST SERVICE	4,215	-	-	1,079	472	-	809	-	1,855
SCIENCE & EDUCATION ADMINISTRATION	10,250	-	-	316	789	158	316	-	8,671
AGRICULTURAL RESEARCH	8,203	-	-	316	789	158	316	-	6,624
AGRICULTURAL COOPERATIVE RESEARCH	2,047	-	-	-	-	-	-	-	2,047
DEPARTMENT OF COMMERCE, TOTAL	3,294	-	-	-	2,147	255	102	752	38
MARITIME ADMINISTRATION	2,000	-	-	-	2,000	-	-	-	-
NATIONAL BUREAU OF STANDARDS	892	-	-	-	-	-	102	752	38
NAT'L OCEANIC & ATMOSPHERIC ADMIN	402	-	-	-	147	255	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	169,737	27,519	-	9,510	1,546	46,663	23,738	57,346	3,415
DEPARTMENT OF THE ARMY	38,535	8,159	-	1,295	1,023	16,448	5,051	6,346	213
DEPARTMENT OF THE NAVY	52,139	3,721	-	8,215	-	10,562	10,026	18,214	1,400
DEPARTMENT OF THE AIR FORCE	52,439	15,600	-	-	523	12,520	8,479	15,316	-
DEFENSE AGENCIES	26,626	39	-	-	-	7,133	182	17,470	1,802
DEPARTMENT OF ENERGY	42,567	-	-	211	-	377	2,158	34,816	5,005
DEPT OF HLTH & HUMAN SERVICES, TOTAL	26,009	-	-	-	-	-	-	-	26,009
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	36	-	-	-	-	-	-	-	36
NATIONAL INSTITUTES OF HEALTH	25,973	-	-	-	-	-	-	-	25,973
DEPARTMENT OF THE INTERIOR, TOTAL	6,892	-	-	287	596	401	300	4,229	1,079
BUREAU OF MINES	5,100	-	-	-	-	300	300	4,200	300
OFFICE OF WATER RSCH & TECHNOLOGY	1,682	-	-	287	572	15	-	29	779
WATER AND POWER RESOURCES SERVICE	110	-	-	-	24	86	-	-	-
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	113,294	75,590	27,184	173	55	1,900	1,448	5,080	1,864
NATIONAL SCIENCE FOUNDATION	89,372	1,048	-	14,572	16,505	21,087	13,356	19,114	3,690

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-43. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	520,040	115,511	29,006	28,695	21,515	77,563	50,090	141,300	56,360
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	16,721	-	-	1,560	1,464	190	1,265	-	12,242
FOREST SERVICE	4,614	-	-	1,181	517	-	886	-	2,030
SCIENCE & EDUCATION ADMINISTRATION	12,107	-	-	379	947	190	379	-	10,212
AGRICULTURAL RESEARCH	9,857	-	-	379	947	190	379	[illegible]	7,962
AGRICULTURAL COOPERATIVE RESEARCH	2,250	-	-	-	-	-	-	[illegible]	2,250
DEPARTMENT OF COMMERCE, TOTAL	2,969	-	-	-	860	272	350	1,099	388
MARITIME ADMINISTRATION	700	-	-	-	700	-	-	-	-
NATIONAL BUREAU OF STANDARDS	1,837	-	-	-	-	-	350	1,099	388
NAT'L OCEANIC & ATMOSPHERIC ADMIN	432	-	-	-	160	272	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	191,844	30,915	-	9,220	1,922	50,065	27,176	69,680	2,866
DEPARTMENT OF THE ARMY	41,491	8,015	-	1,547	908	16,170	5,625	8,999	227
DEPARTMENT OF THE NAVY	55,813	3,332	-	7,617	-	11,193	11,587	19,954	2,130
DEPARTMENT OF THE AIR FORCE	63,338	19,188	-	-	1,014	14,583	9,695	18,858	-
DEFENSE AGENCIES	31,202	380	-	56	-	8,119	269	21,869	509
DEPARTMENT OF ENERGY	50,195	-	-	1,210	-	420	3,406	38,826	6,333
DEPT OF HLTH & HUMAN SERVICES, TOTAL	27,615	-	-	-	-	-	-	-	27,615
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	34	-	-	-	-	-	-	-	34
NATIONAL INSTITUTES OF HEALTH	27,581	-	-	-	-	-	-	-	27,581
DEPARTMENT OF THE INTERIOR, TOTAL	6,303	-	-	111	243	390	300	4,662	597
BUREAU OF MINES	5,550	-	-	-	-	300	300	4,650	300
OFFICE OF WATER RSCH & TECHNOLOGY	643	-	-	111	218	5	-	12	297
WATER AND POWER RESOURCES SERVICE	110	-	-	-	25	85	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	500	-	-	-	-	-	500	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	500	-	-	-	-	-	500	-	-
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	325	-	-	325	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	123,804	83,498	29,006	200	65	2,060	1,575	5,500	1,900
NATIONAL SCIENCE FOUNDATION	99,764	1,098	-	16,069	16,961	24,166	15,518	21,533	4,419

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-44. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	511,840	131,385	32,077	34,078	27,073	100,475	63,859	154,869	53,020
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	18,527	-	-	1,713	1,611	210	1,389	-	13,604
FOREST SERVICE	5,063	-	-	1,296	567	-	972	-	2,228
SCIENCE & EDUCATION ADMINISTRATION	13,464	-	-	417	1,044	210	417	-	11,376
AGRICULTURAL RESEARCH	10,859	-	-	417	1,044	210	417	-	8,771
AGRICULTURAL COOPERATIVE RESEARCH	2,605	-	-	-	-	-	-	-	2,605
DEPARTMENT OF COMMERCE, TOTAL	3,502	-	-	-	568	334	350	1,628	622
MARITIME ADMINISTRATION	400	-	-	-	400	-	-	-	-
NATIONAL BUREAU OF STANDARDS	2,600	-	-	-	-	-	350	1,628	622
NAT'L OCEANIC & ATMOSPHERIC ADMIN	502	-	-	-	168	334	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	237,153	37,906	-	11,940	4,566	67,807	34,784	76,472	3,678
DEPARTMENT OF THE ARMY	58,029	11,183	-	2,275	966	24,830	7,771	10,614	390
DEPARTMENT OF THE NAVY	69,430	3,706	-	9,605	-	14,450	14,643	24,315	2,711
DEPARTMENT OF THE AIR FORCE	77,910	22,397	-	-	3,600	20,394	12,184	19,335	-
DEFENSE AGENCIES	31,784	620	-	60	-	8,133	186	22,208	577
DEPARTMENT OF ENERGY	59,471	-	-	1,297	-	504	5,800	43,970	7,900
DEPT OF HLTH & HUMAN SERVICES, TOTAL	29,797	-	-	-	-	-	-	-	29,797
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	35	-	-	-	-	-	-	-	35
NATIONAL INSTITUTES OF HEALTH	29,762	-	-	-	-	-	-	-	29,762
DEPARTMENT OF THE INTERIOR, TOTAL	6,330	-	-	-	10	370	300	1,100	4,550
BUREAU OF MINES	6,250	-	-	-	-	300	300	1,100	4,550
WATER AND POWER RESOURCES SERVICE	80	-	-	-	10	70	-	-	-
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	587	-	-	587	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	136,004	92,077	32,077	225	75	2,150	1,650	5,750	2,000
NATIONAL SCIENCE FOUNDATION	120,469	1,406	-	18,316	20,243	29,100	19,586	25,949	5,869

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-45. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	116,928	67,093	46,617	3,218	147,180	14,234	40,010	7,403	25,377	60,156
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	857	857	-	-	22,333	4	19,886	-	2,343	100
ECONOMICS & STATISTICS SERVICE	-	-	-	-	6,592	-	5,999	-	527	66
FOREST SERVICE	540	540	-	-	1,990	-	877	-	1,113	-
SCIENCE & EDUCATION ADMINISTRATION	317	317	-	-	13,751	4	13,010	-	703	34
AGRICULTURAL RESEARCH	317	317	-	-	473	4	435	-	-	34
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	13,278	-	12,575	-	703	-
DEPARTMENT OF COMMERCE, TOTAL	1,921	1,019	902	-	300	-	300	-	-	-
BUREAU OF THE CENSUS	439	439	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	300	-	300	-	-	-
NATIONAL BUREAU OF STANDARDS	812	312	500	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	670	268	402	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	47,345	24,094	20,393	2,858	4,434	-	-	1,174	1,933	1,327
DEPARTMENT OF THE ARMY	7,621	5,698	1,813	110	89	-	-	-	47	42
DEPARTMENT OF THE NAVY	15,297	8,436	6,677	184	1,886	-	-	-	1,886	-
DEPARTMENT OF THE AIR FORCE	10,195	8,496	1,699	-	-	-	-	-	-	-
DEFENSE AGENCIES	14,232	1,464	10,204	2,564	2,459	-	-	1,174	-	1,285
DEPARTMENT OF EDUCATION, TOTAL	-	-	-	-	17,583	-	-	-	-	17,583
DEPARTMENT OF ENERGY	10,196	7,176	3,020	-	-	-	-	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	4,874	4,678	-	196	34,237	412	2,948	508	13,555	15,714
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	196	-	-	196	12,175	412	36	216	10,045	1,466
NATIONAL INSTITUTES OF HEALTH	4,678	4,678	-	-	8,503	-	-	-	-	8,503
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	11,560	-	1,513	292	3,010	5,745
OFFICE OF THE SECRETARY	-	-	-	-	1,999	-	1,399	-	500	-
DEPARTMENT OF THE INTERIOR, TOTAL	1,865	686	1,120	59	1,417	-	986	287	72	72
BUREAU OF MINES	600	600	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	857	86	771	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	349	-	349	-	699	-	699	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	59	-	-	59	718	-	287	287	72	72
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	8,284	-	100	1,890	2,990	3,304
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	8,284	-	100	1,890	2,990	3,304
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	3,876	-	3,876	-	-	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	3,876	-	3,876	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	254	254	-	-	1,477	-	-	-	58	1,419
INTERNAL REVENUE SERVICE	254	254	-	-	1,477	-	-	-	58	1,419
OTHER AGENCIES										
FEDERAL TRADE COMMISSION	-	-	-	-	1,495	-	1,495	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,847	1,163	579	105	187	-	22	-	25	140
NATIONAL SCIENCE FOUNDATION	47,769	27,166	20,603	-	36,844	6,512	10,297	3,544	4,300	11,891
SMITHSONIAN INSTITUTION	-	-	-	-	14,613	7,306	-	-	-	7,307
TENNESSEE VALLEY AUTHORITY	-	-	-	-	100	-	100	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-45. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	133,571	77,924	53,100	7,547	144,485	13,430	40,991	4,546	25,429	63,139
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	969	969	-	-	25,936	5	23,128	-	2,677	126
ECONOMICS & STATISTICS SERVICE	-	-	-	-	8,598	-	7,824	-	688	86
FOREST SERVICE	590	590	-	-	2,176	-	959	-	1,217	-
SCIENCE & EDUCATION ADMINISTRATION	379	379	-	-	15,162	5	14,345	-	772	40
AGRICULTURAL RESEARCH	379	379	-	-	569	5	524	-	-	40
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	14,593	-	13,821	-	772	-
DEPARTMENT OF COMMERCE, TOTAL	2,591	1,389	1,131	71	200	-	200	-	-	-
BUREAU OF THE CENSUS	505	505	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	200	-	200	-	-	-
NATIONAL BUREAU OF STANDARDS	1,369	597	701	71	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	717	287	430	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	63,855	30,661	26,014	7,190	4,421	-	-	675	2,989	756
DEPARTMENT OF THE ARMY	7,286	5,187	1,969	130	153	-	-	-	48	105
DEPARTMENT OF THE NAVY	18,712	9,452	8,909	351	2,941	-	-	-	2,941	-
DEPARTMENT OF THE AIR FORCE	12,094	9,578	2,516	-	-	-	-	-	-	-
DEFENSE AGENCIES	25,763	6,444	12,620	6,699	1,327	-	-	675	-	651
DEPARTMENT OF EDUCATION, TOTAL	-	-	-	-	17,338	-	-	-	-	17,338
DEPARTMENT OF ENERGY	11,365	8,385	2,980	-	-	-	-	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	5,051	4,888	-	163	37,180	394	3,293	530	13,734	19,179
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	163	-	-	163	11,612	394	26	209	9,564	1,419
NATIONAL INSTITUTES OF HEALTH	4,888	4,888	-	-	9,077	-	-	-	-	9,077
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	14,391	-	1,797	371	3,540	8,693
OFFICE OF THE SECRETARY	-	-	-	-	2,100	-	1,470	-	530	-
DEPARTMENT OF THE INTERIOR, TOTAL	1,990	710	1,267	13	931	-	665	110	28	29
BUREAU OF MINES	600	600	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	1,099	110	989	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	278	-	278	-	555	-	555	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	13	-	-	13	276	-	110	110	28	29
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	5,781	-	220	500	2,621	2,440
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	5,781	-	220	500	2,621	2,440
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	3,449	-	3,419	-	30	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	3,449	-	3,419	-	30	-
DEPARTMENT OF THE TREASURY, TOTAL	251	251	-	-	2,031	-	-	-	42	1,989
INTERNAL REVENUE SERVICE	251	251	-	-	2,031	-	-	-	42	1,989
OTHER AGENCIES										
FEDERAL TRADE COMMISSION	-	-	-	-	2,051	-	2,051	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	2,000	1,260	620	120	200	-	25	-	25	150
NATIONAL SCIENCE FOUNDATION	50,499	29,411	21,088	-	29,179	6,435	7,790	2,690	3,283	8,981
SMITHSONIAN INSTITUTION	-	-	-	-	15,788	5,596	-	-	-	10,192
TENNESSEE VALLEY AUTHORITY	-	-	-	-	100	-	100	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-47. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	162,731	94,843	59,886	8,002	125,054	15,021	35,166	2,257	20,933	51,677
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	1,066	1,066	-	-	28,509	6	25,453	-	2,919	131
ECONOMICS & STATISTICS SERVICE	-	-	-	-	8,598	-	7,824	-	688	86
FOREST SERVICE	648	648	-	-	2,390	-	1,053	-	1,337	-
SCIENCE & EDUCATION ADMINISTRATION	418	418	-	-	17,521	6	16,576	-	894	45
AGRICULTURAL RESEARCH	418	418	-	-	627	6	576	-	-	45
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	16,894	-	16,000	-	894	-
DEPARTMENT OF COMMERCE, TOTAL	3,093	1,672	1,346	75	-	-	-	-	-	-
BUREAU OF THE CENSUS	505	505	-	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	1,751	832	844	75	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	837	335	502	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	71,600	38,433	25,659	7,508	4,203	-	-	496	2,155	1,552
DEPARTMENT OF THE ARMY	10,914	8,150	2,654	110	169	-	-	-	56	113
DEPARTMENT OF THE NAVY	23,209	12;136	10,436	637	2,099	-	-	-	2,099	-
DEPARTMENT OF THE AIR FORCE	13,118	10,919	2,199	-	-	-	-	-	-	-
DEFENSE AGENCIES	24,359	7,228	10,370	6,761	1,935	-	-	496	-	1,439
DEPARTMENT OF EDUCATION, TOTAL	-	-	-	-	13,489	-	-	-	-	13,489
DEPARTMENT OF ENERGY	13,300	9,600	3,700	-	-	-	-	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	5,443	5,274	-	169	31,578	396	1,566	281	12,601	16,734
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	169	-	-	169	12,601	396	27	211	10,483	1,484
NATIONAL INSTITUTES OF HEALTH	5,274	5,274	-	-	9,795	-	-	-	-	9,795
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	8,182	-	839	70	1,818	5,455
OFFICE OF THE SECRETARY	-	-	-	-	1,000	-	700	-	300	-
DEPARTMENT OF THE INTERIOR, TOTAL	1,879	704	1,175	-	484	-	484	-	-	-
BUREAU OF MINES	600	600	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	1,037	104	933	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	242	-	242	-	484	-	484	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	5,200	-	150	500	1,500	3,050
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	5,200	-	150	500	1,500	3,050
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	2,177	-	2,155	-	22	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	2,177	-	2,155	-	22	-
DEPARTMENT OF THE TREASURY, TOTAL	262	262	-	-	2,118	-	-	-	44	2,074
INTERNAL REVENUE SERVICE	262	262	-	-	2,118	-	-	-	44	2,074
OTHER AGENCIES										
FEDERAL TRADE COMMISSION	-	-	-	-	2,153	-	2,153	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	2,100	1,300	650	150	225	-	30	-	30	165
NATIONAL SCIENCE FOUNDATION	63,989	36,532	27,356	100	15,923	5,460	3,075	980	1,662	4,746
SMITHSONIAN INSTITUTION	-	-	-	-	18,895	9,159	-	-	-	9,736
TENNESSEE VALLEY AUTHORITY	-	-	-	-	100	-	100	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE C-48. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	6,939,225	2,472,940	1,751,436	240,679	1,376,839	414,331	398,686	64,210	127,057	93,049
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	381,785	250,364	2,766	-	124,197	-	162	-	627	3,669
AGRICULTURAL COOPERATIVE SVC	1,634	1,419	-	-	215	-	-	-	-	-
AGRICULTURAL MARKETING SERVICE	1,000	950	25	-	25	-	-	-	-	-
ECONOMICS & STATISTICS SERVICE	24,459	23,376	-	-	1,083	-	-	-	-	-
FOREST SERVICE	72,328	67,548	36	-	4,597	-	66	-	74	7
OFF OF INTERNAT'L COOPERATION & DEV	2,603	373	-	-	-	-	-	-	-	2,230
SCIENCE & EDUCATION ADMINISTRATION	279,761	156,698	2,705	-	118,277	-	96	-	553	1,432
AGRICULTURAL RESEARCH	170,778	152,600	2,705	-	13,793	-	96	-	152	1,432
AGRICULTURAL COOPERATIVE RESEARCH	108,983	4,098	-	-	104,484	-	-	-	401	-
DEPARTMENT OF COMMERCE, TOTAL	224,526	159,298	16,595	-	37,643	383	1,968	163	7,891	585
BUREAU OF THE CENSUS	1,405	1,405	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	2,200	216	384	-	1,000	-	540	-	60	-
MARITIME ADMINISTRATION	10,136	1,825	8,061	-	250	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	45,109	44,579	780	-	281	-	169	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	154,313	101,318	7,370	-	36,112	383	1,259	163	7,831	377
NAT'L TELECOMM & INFORMATION ADMIN	9,625	9,625	-	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	238	30	-	-	-	-	-	-	-	208
DEPARTMENT OF DEFENSE, TOTAL	1,721,428	651,693	882,112	3,606	104,354	31,150	33,584	11,542	50	3,337
DEPARTMENT OF THE ARMY	347,065	225,373	94,019	-	15,106	2,640	7,206	1,555	50	1,116
DEPARTMENT OF THE NAVY	336,200	193,551	194,157	-	13,709	2,579	816	1,370	-	19
DEPARTMENT OF THE AIR FORCE	429,100	132,555	228,895	-	60,276	-	5,425	-	-	1,949
DEFENSE AGENCIES	549,063	110,214	365,041	3,606	15,263	25,931	20,137	8,617	-	254
DEPARTMENT OF EDUCATION, TOTAL	69,992	1,881	7,184	-	42,209	-	15,092	-	2,725	901
DEPARTMENT OF ENERGY	754,190	75,125	60,578	110,035	108,125	320,574	34,902	39,950	1,082	3,819
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,570,109	386,068	112,796	11,095	765,204	3,440	231,368	253	47,613	12,272
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	129,400	26,589	7,526	-	71,846	-	18,214	-	3,816	909
CENTERS FOR DISEASE CONTROL	37,257	66,693	6,593	-	7,670	-	5,209	-	463	629
FOOD & DRUG ADMINISTRATION	75,400	59,824	4,680	-	6,895	-	2,255	-	1,746	-
HEALTH CARE FINANCING ADMIN	45,727	5,750	19,081	-	7,084	-	-	-	13,812	-
HEALTH RESOURCES ADMINISTRATION	5,140	154	-	-	4,676	-	310	-	-	-
HEALTH SERVICES ADMINISTRATION	5,991	2,007	-	-	2,998	-	832	-	154	-
NATIONAL INSTITUTES OF HEALTH	1,145,129	201,705	67,695	11,095	648,214	3,440	186,031	253	16,087	10,609
OFFICE OF ASSIST SECY FOR HEALTH	14,146	5,465	2,061	-	5,522	-	985	-	-	113
OFF OF HUMAN DEVELOPMENT SERVICES	19,131	1,223	1,943	-	5,869	-	8,298	-	1,686	112
OFFICE OF THE SECRETARY	22,001	1,944	1,932	-	1,001	-	8,768	-	9,356	-
SOCIAL SECURITY ADMINISTRATION	21,387	14,714	1,285	-	3,429	-	466	-	1,493	-
DEPT OF HOUSING & URBAN DEVELOPMENT	19,601	11,986	4,352	-	991	-	2,118	-	98	56
DEPARTMENT OF THE INTERIOR, TOTAL	232,812	157,648	45,559	-	30,724	107	1,914	115	46,745	-
BUREAU OF LAND MANAGEMENT	1,323	584	-	-	739	-	-	-	-	-
BUREAU OF MINES	71,300	36,200	32,400	-	1,500	100	1,000	100	-	-
GEOLOGICAL SURVEY	98,520	84,834	5,441	-	8,245	-	-	-	-	-
NATIONAL PARK SERVICE	8,243	5,995	-	-	2,091	-	157			
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	7,471	666	1,660	-	4,867	-	278	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	11,300	400	3,500	-	7,800	-	-	-	100	-
US FISH & WILDLIFE SERVICE	71,444	23,331	412	-	1,550	7	479	15	45,650	-
WATER AND POWER RESOURCES SERVICE	12,711	5,638	2,146	-	3,932	-	-	-	995	-
DEPARTMENT OF JUSTICE, TOTAL	19,235	1,029	1,980	-	5,245	-	9,586	-	1,395	-
DRUG ENFORCEMENT ADMINISTRATION	300	100	700	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	857	57	-	-	300	-	-	-	500	-
IMMIGRATION & NATURALIZATION SVC	151	56	95	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	1,320	170	500	-	640	-	10	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	15,107	646	685	-	4,305	-	9,576	-	895	-
DEPARTMENT OF LABOR, TOTAL	32,556	8,735	10,370	-	2,344	-	11,087	-	14	6
BUREAU OF LABOR STATISTICS	925	860	65	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	4,900	3,900	450	-	150	-	400	-	-	-
EMPLOYMENT & TRAINING ADMIN	16,248	941	3,953	-	1,572	-	9,768	-	14	-
LABOR-MANAGEMENT SERVICES ADMIN	2,819	1,312	318	-	608	-	575	-	-	6
OCCUPATIONAL SAFETY & HEALTH ADMIN	6,300	607	5,366	-	-	-	327	-	-	-
OFFICE OF THE SECRETARY	1,364	1,115	218	-	14	-	17	-	-	-
DEPARTMENT OF STATE, TOTAL	1,956	771	748	-	168	20	249	-	-	-
DEPARTMENTAL FUNDS	1,956	771	748	-	168	20	249	-	-	-

CONTINUED ON NEXT PAGE

TABLE C-48. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF TRANSPORTATION, TOTAL ..	82,445	28,651	39,211	-	8,234	-	3,521	-	2,828	-
COAST GUARD	8,100	2,800	5,100	-	200	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	8,200	1,804	6,396	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,600	1,173	2,120	-	-	-	1,172	-	135	-
FEDERAL RAILROAD ADMINISTRATION	7,900	6,085	1,815	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	33,615	11,817	19,907	-	2,689	-	1,809	-	2,393	-
OFFICE OF THE SECRETARY	640	210	430	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	5,500	2,561	643	-	2,296	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	8,890	2,201	2,800	-	3,049	-	540	-	300	-
DEPARTMENT OF THE TREASURY, TOTAL	3,956	2,931	917	-	40	26	11	31	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	346	80	169	-	40	26	-	31	-	-
BUREAU OF ENGRAVING AND PRINTING ...	1,300	1,100	200	-	-	-	-	-	-	-
CUSTOMS SERVICE	100	100	-	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	2,210	1,651	548	-	-	-	11	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,219	2,219	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	600	50	350	-	-	-	-	-	200	-
COMMUNITY SERVICES ADMINISTRATION	1,250	25	-	-	-	-	1,225	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	1,600	672	848	-	80	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	231,500	100,244	62,968	-	35,188	-	16,300	-	14,700	2,100
FEDERAL COMMUNICATIONS COMMISSION	3,420	2,196	1,224	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	6,688	2,376	2,122	-	378	-	1,395	100	317	-
FEDERAL HOME LOAN BANK BOARD	1,227	1,227	-	-	-	-	-	-	-	-
FEDERAL TRADE COMMISSION	1,526	1,526	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	105	1	71	-	-	-	33	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	83	80	3	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	79,664	5,316	2,766	-	34,502	-	2,560	241	-	34,279
AGENCY FOR INTERNAT'L DEVELOPMENT ..	79,664	5,316	2,766	-	34,502	-	2,560	241	-	34,279
INTERSTATE COMMERCE COMMISSION	143	143	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	500	500	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,050,531	484,759	484,022	-	33,353	31,404	15,889	59	306	739
NATIONAL SCIENCE FOUNDATION	58,441	6,963	5,343	2	37,111	117	8,382	25	-	498
NUCLEAR REGULATORY COMMISSION	182,672	14,096	5,301	115,941	5,902	26,688	1,760	11,731	466	737
OFFICE OF PERSONNEL MANAGEMENT	2,601	2,211	160	-	210	-	20	-	-	-
TENNESSEE VALLEY AUTHORITY	11,200	6,000	-	-	-	-	5,200	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	2,996	885	1,090	-	239	422	360	-	-	-
US INTERNATIONAL TRADE COMMISSION	2,068	2,068	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	103,600	103,203	-	-	397	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-49. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	7,322,622	2,592,618	1,937,536	267,189	1,417,052	443,826	401,184	60,346	125,625	77,246
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	419,434	275,020	4,411	-	135,501	-	226	-	752	3,524
AGRICULTURAL COOPERATIVE SVC	2,469	2,069	-	-	400	-	-	-	-	-
AGRICULTURAL MARKETING SERVICE	1,141	1,081	30	-	30	-	-	-	-	-
ECONOMICS & STATISTICS SERVICE	27,987	26,898	-	-	1,089	-	-	-	-	-
FOREST SERVICE	79,300	74,061	39	-	5,038	-	72	-	81	9
OFF OF INTERNAT'L COOPERATION & DEV	2,308	406	-	-	-	-	-	-	-	2,402
SCIENCE & EDUCATION ADMINISTRATION	305,729	170,505	4,342	-	128,944	-	154	-	671	1,113
AGRICULTURAL RESEARCH	186,470	166,096	4,342	-	14,525	-	154	-	240	1,113
AGRICULTURAL COOPERATIVE RESEARCH	119,259	4,409	-	-	114,419	-	-	-	431	-
DEPARTMENT OF COMMERCE, TOTAL	225,173	163,900	13,159	-	37,048	650	1,691	165	8,298	262
BUREAU OF THE CENSUS	1,680	1,680	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	1,600	150	275	-	725	-	450	-	-	-
MARITIME ADMINISTRATION	9,166	1,830	7,236	-	100	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	49,160	48,040	800	-	320	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	153,368	102,010	4,848	-	35,903	650	1,241	165	8,298	253
NAT'L TELECOMM & INFORMATION ADMIN	10,189	10,189	-	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	10	1	-	-	-	-	-	-	-	9
DEPARTMENT OF DEFENSE, TOTAL	1,971,069	699,514	1,064,602	5,600	113,809	30,726	37,443	15,070	46	4,259
DEPARTMENT OF THE ARMY	370,680	220,461	123,647	-	13,564	1,697	8,428	1,714	46	1,123
DEPARTMENT OF THE NAVY	461,090	201,177	237,871	-	17,009	2,635	841	1,506	-	51
DEPARTMENT OF THE AIR FORCE	480,500	148,426	256,348	-	67,510	-	6,054	-	-	2,162
DEFENSE AGENCIES	658,799	129,450	446,736	5,600	15,726	26,394	22,120	11,850	-	923
DEPARTMENT OF EDUCATION, TOTAL	69,974	2,239	7,301	-	40,265	-	15,507	-	2,170	2,492
DEPARTMENT OF ENERGY	812,748	60,854	106,247	118,738	100,732	351,144	36,540	30,905	554	7,034
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,608,834	387,252	115,950	11,886	798,744	4,266	230,488	238	45,882	14,128
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	125,831	30,017	6,833	-	68,460	-	16,627	-	3,404	490
CENTERS FOR DISEASE CONTROL	70,844	52,481	5,933	-	4,944	-	4,712	-	419	2,355
FOOD & DRUG ADMINISTRATION	74,900	59,708	4,990	-	6,700	-	2,300	-	1,202	-
HEALTH CARE FINANCING ADMIN	46,000	3,150	20,500	-	7,600	-	-	-	14,750	-
HEALTH RESOURCES ADMINISTRATION	5,155	155	-	-	4,800	-	200	-	-	-
HEALTH SERVICES ADMINISTRATION	4,479	1,740	-	-	2,054	-	575	-	110	-
NATIONAL INSTITUTES OF HEALTH	1,198,635	217,934	70,130	11,886	677,121	4,266	188,560	238	17,641	10,859
OFFICE OF ASST'T SECY FOR HEALTH	16,529	6,270	1,153	-	7,686	-	1,086	-	-	334
OFF OF HUMAN DEVELOPMENT SERVICES	16,253	1,191	1,943	-	4,531	-	7,093	-	1,465	30
OFFICE OF THE SECRETARY	19,900	1,950	4,150	-	1,096	-	8,724	-	3,980	-
SOCIAL SECURITY ADMINISTRATION	20,248	12,656	318	-	3,752	-	611	-	2,911	-
DEPT OF HOUSING & URBAN DEVELOPMENT	19,054	11,652	4,230	-	962	-	2,060	-	150	-
DEPARTMENT OF THE INTERIOR, TOTAL	287,008	172,571	39,461	86	24,314	500	1,700	180	48,196	-
BUREAU OF LAND MANAGEMENT	1,458	508	-	-	950	-	-	-	-	-
BUREAU OF MINES	67,100	34,000	30,400	-	1,500	100	1,000	100	-	-
GEOLOGICAL SURVEY	109,874	97,095	4,724	-	8,055	-	-	-	-	-
NATIONAL PARK SERVICE	10,025	7,777	-	-	2,048	-	200	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	6,290	464	1,303	86	4,401	-	-	-	36	-
OFFICE OF WATER RSCH & TECHNOLOGY	4,480	174	580	-	3,726	-	-	-	-	-
US FISH & WILDLIFE SERVICE	74,370	24,370	420	-	1,600	400	500	80	47,000	-
WATER AND POWER RESOURCES SERVICE	13,411	8,183	2,034	-	2,034	-	-	-	1,160	-
DEPARTMENT OF JUSTICE, TOTAL	16,533	630	2,615	-	4,889	-	7,499	-	900	-
DRUG ENFORCEMENT ADMINISTRATION	700	100	600	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	1,057	57	-	-	300	-	-	-	700	-
IMMIGRATION & NATURALIZATION SVC	516	56	460	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	1,500	100	900	-	500	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	12,760	317	655	-	4,089	-	7,499	-	200	-
DEPARTMENT OF LABOR, TOTAL	33,956	9,185	11,012	-	4,753	-	8,986	-	20	-
BUREAU OF LABOR STATISTICS	938	938	-	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	5,900	3,200	1,800	-	500	-	400	-	-	-
EMPLOYMENT & TRAINING ADMIN	14,151	1,486	1,094	-	3,585	-	7,966	-	20	-
LABOR-MANAGEMENT SERVICES ADMIN	3,055	1,409	358	-	668	-	620	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	8,000	240	7,760	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	1,012	1,012	-	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	1,727	697	626	40	259	20	35	50	-	-
DEPARTMENTAL FUNDS	1,727	697	626	40	259	20	35	50	-	-

CONTINUED ON NEXT PAGE

TABLE C-49. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	91,141	29,030	47,614	-	7,922	-	3,119	-	3,456	-
COAST GUARD	15,300	2,000	13,500	-	300	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	9,500	2,090	7,410	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,700	1,273	1,959	-	-	-	1,322	-	146	-
FEDERAL RAILROAD ADMINISTRATION	8,400	6,535	1,865	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	38,369	11,742	19,780	-	2,672	-	1,797	-	2,378	-
OFFICE OF THE SECRETARY	740	240	500	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	5,100	3,050	-	-	2,050	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	8,532	2,100	2,600	-	2,900	-	-	-	932	-
DEPARTMENT OF THE TREASURY, TOTAL	4,347	3,363	934	-	-	-	-	50	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	100	50	-	-	-	-	-	50	-	-
BUREAU OF ENGRAVING AND PRINTING ...	1,862	1,588	274	-	-	-	-	-	-	-
CUSTOMS SERVICE	100	100	-	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	2,285	1,625	660	-	-	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,327	1,327	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	280	10	75	-	-	-	-	-	195	-
COMMUNITY SERVICES ADMINISTRATION	1,000	20	-	-	-	-	980	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	2,700	261	2,352	-	87	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	245,700	109,773	99,971	-	43,227	-	18,943	-	13,786	-
FEDERAL COMMUNICATIONS COMMISSION	2,690	1,858	832	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	9,954	3,534	3,155	-	567	-	2,081	149	468	-
FEDERAL HOME LOAN BANK BOARD	1,150	1,125	-	-	25	-	-	-	-	-
FEDERAL TRADE COMMISSION	2,115	2,115	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	373	50	290	-	-	-	33	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	220	124	96	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	87,160	7,500	1,750	-	32,291	-	1,990	200	-	43,429
AGENCY FOR INTERNAT'L DEVELOPMENT ..	87,160	7,500	1,750	-	32,291	-	1,990	200	-	43,429
INTERSTATE COMMERCE COMMISSION	175	175	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	500	500	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,014,172	498,178	437,584	-	36,000	26,072	15,339	56	310	633
NATIONAL SCIENCE FOUNDATION	59,764	6,589	6,707	5	38,142	250	7,570	-	1	500
NUCLEAR REGULATORY COMMISSION	207,673	16,106	6,230	130,834	6,987	30,048	2,769	13,283	441	975
OFFICE OF PERSONNEL MANAGEMENT	4,027	3,752	75	-	200	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	12,900	6,900	-	-	-	-	6,000	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	1,050	458	257	-	50	150	135	-	-	-
US INTERNATIONAL TRADE COMMISSION	2,984	2,984	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	114,200	113,922	-	-	278	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-50. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

			EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	7,932,350	2,770,733	2,274,038	309,894	1,419,338	544,861	406,472	55,404	115,032	37,373
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	462,838	301,333	4,852	-	152,189	-	248	-	834	3,382
AGRICULTURAL COOPERATIVE SVC	2,514	2,114	-	-	400	-	-	-	-	-
AGRICULTURAL MARKETING SERVICE	1,169	1,109	30	-	30	-	-	-	-	-
ECONOMICS & STATISTICS SERVICE	30,370	29,732	-	-	1,638	-	-	-	-	-
FOREST SERVICE	87,100	81,346	43	-	5,532	-	79	-	89	11
OFF OF INTERNAT'L COOPERATION & DEV	3,197	435	-	-	-	-	-	-	-	2,762
SCIENCE & EDUCATION ADMINISTRATION	338,488	187,597	4,779	-	144,589	-	169	-	745	609
AGRICULTURAL RESEARCH	206,289	182,833	4,779	-	17,634	-	169	-	265	609
AGRICULTURAL COOPERATIVE RESEARCH	132,199	4,764	-	-	126,955	-	-	-	480	-
DEPARTMENT OF COMMERCE, TOTAL	192,016	165,176	13,283	-	11,632	500	843	138	414	30
BUREAU OF THE CENSUS	1,676	1,676	-	-	-	-	-	-	-	-
MARITIME ADMINISTRATION	8,410	1,650	6,660	-	100	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	56,614	54,649	1,545	-	420	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	115,956	97,841	5,078	-	11,112	500	843	138	414	30
NAT'L TELECOMM & INFORMATION ADMIN	9,360	9,360	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	2,426,176	785,738	1,372,335	6,279	139,682	55,067	44,928	12,659	50	9,438
DEPARTMENT OF THE ARMY	447,140	258,398	160,836	-	15,471	473	8,543	2,100	50	1,269
DEPARTMENT OF THE NAVY	526,400	215,105	285,529	-	19,229	3,550	1,352	1,635	-	-
DEPARTMENT OF THE AIR FORCE	513,600	151,438	281,219	-	72,161	-	6,471	-	-	2,311
DEFENSE AGENCIES	939,036	160,797	644,751	6,279	32,821	51,044	28,562	8,924	-	5,858
DEPARTMENT OF EDUCATION, TOTAL	39,624	616	8,163	-	16,716	-	11,405	-	1,129	1,595
DEPARTMENT OF ENERGY	939,104	85,267	130,657	148,351	92,903	420,845	33,692	23,551	500	3,338
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,681,755	402,483	125,879	13,704	824,379	4,573	244,021	3,604	48,135	14,977
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	135,816	41,184	6,229	-	67,275	-	17,393	-	3,361	374
CENTERS FOR DISEASE CONTROL	77,085	58,708	5,933	-	4,933	-	4,712	-	419	2,380
FOOD & DRUG ADMINISTRATION	75,400	60,108	4,990	-	6,800	-	2,300	-	1,202	-
HEALTH CARE FINANCING ADMIN	46,000	3,150	20,500	-	7,600	-	-	-	14,750	-
HEALTH SERVICES ADMINISTRATION	300	300	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,270,400	221,050	74,954	13,704	722,716	4,573	202,285	254	19,056	11,808
OFFICE OF ASST'T SECY FOR HEALTH	10,127	3,798	1,658	-	3,417	-	919	-	-	335
OFF OF HUMAN DEVELOPMENT SERVICES	22,607	431	50	-	6,924	-	8,657	-	6,465	80
OFFICE OF THE SECRETARY	15,700	1,200	3,000	-	1,000	-	7,150	3,350	-	-
SOCIAL SECURITY ADMINISTRATION	28,320	12,554	8,565	-	3,714	-	605	-	2,882	-
DEPT OF HOUSING & URBAN DEVELOPMENT	20,412	12,482	4,531	-	1,031	-	2,207	-	161	-
DEPARTMENT OF THE INTERIOR, TOTAL	273,597	173,077	33,100	60	18,855	475	1,970	160	45,900	-
BUREAU OF LAND MANAGEMENT	1,580	480	-	-	1,100	-	-	-	-	-
BUREAU OF MINES	63,800	33,000	28,100	-	1,500	100	1,000	100	-	-
GEOLOGICAL SURVEY	114,174	102,887	3,232	-	8,055	-	-	-	-	-
NATIONAL PARK SERVICE	13,371	7,371	-	-	5,500	-	500	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,170	442	368	60	-	-	-	-	300	-
US FISH & WILDLIFE SERVICE	70,737	22,932	400	-	1,500	375	470	60	45,000	-
WATER AND POWER RESOURCES SERVICE	8,765	5,965	1,000	-	1,200	-	-	-	600	-
DEPARTMENT OF JUSTICE, TOTAL	11,910	663	2,322	-	3,020	-	4,955	-	950	-
DRUG ENFORCEMENT ADMINISTRATION	600	200	400	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	1,057	57	-	-	300	-	-	-	700	-
IMMIGRATION & NATURALIZATION SVC	228	56	172	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	1,000	100	500	-	300	-	100	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	9,025	250	1,250	-	2,420	-	4,855	-	250	-
DEPARTMENT OF LABOR, TOTAL	27,160	6,353	13,463	-	3,856	-	3,468	-	20	-
BUREAU OF LABOR STATISTICS	879	879	-	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	4,900	1,400	2,600	-	500	-	400	-	-	-
EMPLOYMENT & TRAINING ADMIN	8,965	1,272	2,537	-	2,688	-	2,448	-	20	-
LABOR-MANAGEMENT SERVICES ADMIN	3,055	1,409	358	-	668	-	620	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	8,300	332	7,968	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	1,061	1,061	-	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	1,827	747	626	40	259	20	85	50	-	-
DEPARTMENTAL FUNDS	1,827	747	626	40	259	20	85	50	-	-

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TABLE C-50. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF TRANSPORTATION, TOTAL ..	91,590	37,377	39,463	-	8,173	-	3,069	-	3,508	-
COAST GUARD	17,000	10,400	6,200	-	400	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	9,000	1,980	7,020	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,700	1,273	1,959	-	-	-	1,322	-	146	-
FEDERAL RAILROAD ADMINISTRATION	7,000	5,446	1,554	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	37,300	11,413	19,230	-	2,598	-	1,747	-	2,312	-
OFFICE OF THE SECRETARY	740	240	500	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	6,400	4,225	200	-	1,975	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	9,450	2,400	2,800	-	3,200	-	-	-	1,050	-
DEPARTMENT OF THE TREASURY, TOTAL	5,238	3,904	1,294	-	-	-	40	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	1,810	1,508	302	-	-	-	-	-	-	-
CUSTOMS SERVICE	100	100	-	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	3,328	2,296	992	-	-	-	40	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,028	2,028	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	300	50	150	-	-	-	-	-	100	-
CONSUMER PRODUCT SAFETY COMMISSION ...	2,100	210	1,827	-	63	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	201,400	81,305	54,669	-	32,272	-	19,680	-	12,174	1,300
FEDERAL COMMUNICATIONS COMMISSION	1,925	1,655	270	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	12,748	4,526	4,041	-	727	-	2,664	191	599	-
FEDERAL HOME LOAN BANK BOARD	1,321	1,276	-	-	45	-	-	-	-	-
FEDERAL TRADE COMMISSION	2,222	2,222	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	134	100	-	-	-	-	34	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	138	14	124	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	98,508	8,170	2,300	-	34,033	-	2,330	280	-	51,395
AGENCY FOR INTERNAT'L DEVELOPMENT ..	98,508	8,170	2,300	-	34,033	-	2,330	280	-	51,395
INTERSTATE COMMERCE COMMISSION	150	150	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	500	500	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,060,930	529,929	446,500	-	37,000	30,614	16,050	56	348	433
NATIONAL SCIENCE FOUNDATION	54,456	6,899	6,862	-	35,211	130	5,044	-	-	310
NUCLEAR REGULATORY COMMISSION	224,540	18,744	6,736	141,460	6,900	32,330	2,565	14,615	210	930
OFFICE OF PERSONNEL MANAGEMENT	2,627	2,552	75	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	15,700	8,800	-	-	-	-	6,900	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	2,150	946	516	-	107	307	274	-	-	-
US INTERNATIONAL TRADE COMMISSION	3,926	3,926	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	121,300	121,515	-	-	285	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE C-81. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1980, 1981, AND 1982

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1980	ESTIMATES	
		1981	1982
TOTAL, ALL FIELDS	6,909,225	7,322,622	7,982,950
LIFE SCIENCES, TOTAL	2,137,910	2,232,044	2,307,248
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	730,755	770,496	819,442
ENVIRONMENTAL BIOLOGY	143,623	157,219	155,042
AGRICULTURAL	293,746	312,471	322,900
MEDICAL	879,925	903,014	922,989
LIFE SCIENCES, NEC	89,861	88,845	86,875
PSYCHOLOGY, TOTAL	114,803	118,571	129,942
BIOLOGICAL ASPECTS	29,722	30,521	31,451
SOCIAL ASPECTS	63,546	61,118	65,930
PSYCHOLOGICAL SCIENCES, NEC	21,535	26,932	32,561
PHYSICAL SCIENCES, TOTAL	778,952	919,414	1,162,798
ASTRONOMY	6,251	6,315	6,482
CHEMISTRY	197,480	222,713	243,371
PHYSICS	513,453	619,841	816,081
PHYSICAL SCIENCES, NEC	61,768	70,545	96,864
ENVIRONMENTAL SCIENCES, TOTAL	726,744	715,385	761,048
ATMOSPHERIC	222,295	214,074	236,249
GEOLOGICAL	203,353	221,396	248,702
OCEANOGRAPHY	127,830	109,117	99,144
ENVIRONMENTAL SCIENCES, NEC	173,266	170,798	176,953
MATHEMATICS & COMPUTER SCIENCES, TOTAL	124,015	145,485	159,050
MATHEMATICS	23,833	25,018	25,566
COMPUTER SCIENCES	81,976	92,706	93,519
MATHEMATICS & COMPUTER SCIENCES, NEC	18,206	27,761	39,965
ENGINEERING, TOTAL	2,364,501	2,507,067	2,763,932
AERONAUTICAL	603,977	595,236	628,066
ASTRONAUTICAL	275,141	269,842	283,554
CHEMICAL	70,187	132,221	110,942
CIVIL	136,671	125,545	125,039
ELECTRICAL	446,301	498,689	610,994
MECHANICAL	165,751	149,957	163,518
METALLURGY & MATERIALS	114,847	122,297	184,715
ENGINEERING, NEC	551,626	613,280	657,104
SOCIAL SCIENCES, TOTAL	376,631	372,843	360,173
ANTHROPOLOGY	2,945	2,971	3,575
ECONOMICS	152,761	160,867	155,526
POLITICAL SCIENCE	4,767	5,955	3,539
SOCIOLOGY	46,058	44,555	40,173
SOCIAL SCIENCES, NEC	170,100	158,694	157,305
OTHER SCIENCES, NEC	285,669	311,813	338,609

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-52. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	6,909,225	2,137,910	114,803	778,952	726,744	124,015	2,364,501	376,631	285,669
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	381,785	250,000	72	26,866	9,395	1,894	32,162	61,396	-
AGRICULTURAL COOPERATIVE SVC	1,634	-	-	-	-	-	-	1,634	-
AGRICULTURAL MARKETING SERVICE	1,000	1,000	-	-	-	-	-	-	-
ECONOMICS & STATISTICS SERVICE	24,459	-	-	-	-	245	-	24,214	-
FOREST SERVICE	72,328	45,133	72	2,460	7,521	795	8,102	8,245	-
OFF OF INTERNAT'L COOPERATION & DEV	2,603	2,603	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	279,761	201,264	-	24,406	1,874	854	24,060	27,303	-
AGRICULTURAL RESEARCH	170,778	126,377	-	18,957	1,192	854	20,324	3,074	-
AGRICULTURAL COOPERATIVE RESEARCH	108,983	74,887	-	5,449	682	-	3,736	24,229	-
DEPARTMENT OF COMMERCE, TOTAL	224,526	53,592	119	26,313	93,687	7,069	37,278	6,435	33
BUREAU OF THE CENSUS	1,405	-	119	-	-	900	-	353	33
ECONOMIC DEVELOPMENT ADMINISTRATION	2,200	-	-	-	-	-	-	2,200	-
MARITIME ADMINISTRATION	10,136	-	-	-	-	844	8,744	548	-
NATIONAL BUREAU OF STANDARDS	46,109	-	-	21,271	377	4,644	18,041	1,776	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	154,813	53,592	-	4,804	93,310	681	2,071	355	-
NAT'L TELECOMM & INFORMATION ADMIN	9,625	-	-	-	-	-	8,422	1,203	-
OFFICE OF THE SECRETARY	238	-	-	238	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,721,429	100,371	45,062	243,399	98,677	90,483	995,489	686	147,261
DEPARTMENT OF THE ARMY	347,065	50,413	20,747	54,269	16,210	6,534	192,767	615	5,510
DEPARTMENT OF THE NAVY	396,200	8,815	6,557	59,025	20,545	39,148	262,110	-	-
DEPARTMENT OF THE AIR FORCE	429,100	30,744	15,390	41,466	29,100	20,503	291,028	-	869
DEFENSE AGENCIES	549,063	10,399	2,368	88,639	32,822	24,298	249,584	71	140,882
DEPARTMENT OF EDUCATION, TOTAL	69,992	15,305	2,052	-	-	-	5,906	34,461	12,268
DEPARTMENT OF ENERGY	734,190	116,692	-	359,960	109,166	1,448	150,553	2,269	14,102
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,570,109	1,224,178	51,845	26,054	-	4,115	17,170	147,201	99,546
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	128,800	65,077	40,411	696	-	355	49	19,737	2,475
CENTERS FOR DISEASE CONTROL	87,257	87,257	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	75,400	75,400	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	45,727	-	-	-	-	-	-	45,727	-
HEALTH RESOURCES ADMINISTRATION	5,140	-	-	-	-	-	-	-	5,140
HEALTH SERVICES ADMINISTRATION	5,991	5,691	-	-	-	-	-	-	300
NATIONAL INSTITUTES OF HEALTH	1,145,129	990,753	11,434	25,358	-	3,760	17,121	5,072	91,531
OFFICE OF ASST'T SECY FOR HEALTH	14,146	-	-	-	-	-	-	14,146	-
OFF OF HUMAN DEVELOPMENT SERVICES	19,131	-	-	-	-	-	-	19,131	-
OFFICE OF THE SECRETARY	22,001	-	-	-	-	-	-	22,001	-
SOCIAL SECURITY ADMINISTRATION	21,387	-	-	-	-	-	-	21,387	-
DEPT OF HOUSING & URBAN DEVELOPMENT	19,601	-	-	-	-	-	1,922	17,679	-
DEPARTMENT OF THE INTERIOR, TOTAL	232,912	81,138	462	6,400	111,154	6,265	72,248	4,391	754
BUREAU OF LAND MANAGEMENT	1,323	1,148	-	-	100	-	-	75	-
BUREAU OF MINES	71,300	-	-	800	12,000	4,200	54,300	-	-
GEOLOGICAL SURVEY	98,520	-	-	3,662	84,103	1,882	8,873	-	-
NATIONAL PARK SERVICE	8,243	4,444	-	400	997	-	18	2,384	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	7,471	1,073	139	705	1,155	85	4,102	212	-
OFFICE OF WATER RSCH & TECHNOLOGY	11,800	2,619	323	833	2,825	98	2,933	1,565	504
US FISH & WILDLIFE SERVICE	71,444	71,444	-	-	-	-	-	-	-
WATER AND POWER RESOURCES SERVICE	12,711	410	-	-	9,974	-	2,022	155	150
DEPARTMENT OF JUSTICE, TOTAL	19,235	100	1,757	-	320	100	751	16,207	-
DRUG ENFORCEMENT ADMINISTRATION	800	-	100	-	-	100	600	-	-
FEDERAL PRISON SYSTEM	857	-	-	-	-	-	-	857	-
IMMIGRATION & NATURALIZATION SVC	151	-	-	-	-	-	151	-	-
OFFICE OF THE ATTORNEY GENERAL	1,320	-	-	-	-	-	-	1,320	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	16,107	100	1,657	-	320	-	-	14,030	-
DEPARTMENT OF LABOR, TOTAL	32,556	-	192	-	-	-	-	32,364	-
BUREAU OF LABOR STATISTICS	925	-	-	-	-	-	-	925	-
EMPLOYMENT STANDARDS ADMINISTRATION	4,900	-	-	-	-	-	-	4,900	-
EMPLOYMENT & TRAINING ADMIN	16,248	-	192	-	-	-	-	16,056	-
LABOR-MANAGEMENT SERVICES ADMIN	2,819	-	-	-	-	-	-	2,819	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	6,300	-	-	-	-	-	-	6,300	-
OFFICE OF THE SECRETARY	1,364	-	-	-	-	-	-	1,364	-
DEPARTMENT OF STATE, TOTAL	1,956	41	-	70	195	-	-	1,544	106
DEPARTMENTAL FUNDS	1,956	41	-	70	195	-	-	1,544	106

CONTINUED ON NEXT PAGE

TABLE C-52. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	82,445	7,030	-	1,200	1,049	1,344	52,777	17,846	1,200
COAST GUARD	8,100	-	-	1,200	1,000	-	4,600	100	1,200
FEDERAL AVIATION ADMINISTRATION	8,200	-	-	-	-	-	8,200	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,600	270	-	-	-	90	3,743	497	-
FEDERAL RAILROAD ADMINISTRATION	7,900	-	-	-	-	31	7,858	11	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	38,615	6,760	-	-	-	-	15,573	16,282	-
OFFICE OF THE SECRETARY	640	-	-	-	-	-	320	320	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	5,500	-	-	-	49	1,223	3,593	636	-
URBAN MASS TRANSPORTATION ADMIN	8,890	-	-	-	-	-	8,890	-	-
DEPARTMENT OF THE TREASURY, TOTAL	3,956	-	-	1,450	-	1,401	-	324	781
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	346	-	-	50	-	-	-	-	296
BUREAU OF ENGRAVING AND PRINTING ...	1,300	-	-	1,300	-	-	-	-	-
CUSTOMS SERVICE	100	-	-	100	-	-	-	-	-
INTERNAL REVENUE SERVICE	2,210	-	-	-	-	1,401	-	324	485
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,219	-	-	-	-	-	-	2,219	-
APPALACHIAN REGIONAL COMMISSION	600	-	-	-	-	-	-	600	-
COMMUNITY SERVICES ADMINISTRATION	1,250	-	-	-	-	-	-	1,250	-
CONSUMER PRODUCT SAFETY COMMISSION ...	1,600	1,421	-	-	-	-	179	-	-
ENVIRONMENTAL PROTECTION AGENCY	231,500	68,999	-	69,283	5,188	1,038	85,253	1,739	-
FEDERAL COMMUNICATIONS COMMISSION	3,420	-	-	-	-	82	1,553	1,741	44
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	6,688	436	297	1,038	357	371	2,905	960	324
FEDERAL HOME LOAN BANK BOARD	1,227	-	-	-	-	-	-	1,227	-
FEDERAL TRADE COMMISSION	1,526	-	-	-	-	-	-	1,526	-
GENERAL SERVICES ADMINISTRATION	105	-	-	-	-	72	33	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	83	-	-	-	-	-	83	-	-
INTERNAT'L DEV COOPERATION AGENCY	79,664	63,971	-	-	-	587	6,491	8,615	-
AGENCY FOR INTERNAT'L DEVELOPMENT ..	79,664	63,971	-	-	-	587	6,491	8,615	-
INTERSTATE COMMERCE COMMISSION	143	-	-	-	-	50	-	93	-
LIBRARY OF CONGRESS	500	-	-	-	-	-	-	-	500
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,050,531	53,705	1,323	12,253	294,374	1,908	686,334	30	604
NATIONAL SCIENCE FOUNDATION	58,441	8,071	1,621	4,652	3,021	4,909	17,424	10,647	8,096
NUCLEAR REGULATORY COMMISSION	182,672	-	-	-	-	-	182,672	-	-
OFFICE OF PERSONNEL MANAGEMENT	2,601	-	2,301	-	-	-	-	300	-
TENNESSEE VALLEY AUTHORITY	11,200	2,000	-	-	-	-	8,900	300	-
US ARMS CONTROL & DISARMAMENT AGENCY .	2,996	-	-	14	162	879	1,378	513	50
US INTERNATIONAL TRADE COMMISSION	2,068	-	-	-	-	-	-	2,068	-
VETERANS ADMINISTRATION	103,600	90,860	7,700	-	-	-	5,040	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-53. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	7,322,622	2,232,044	118,571	919,414	715,385	145,485	2,507,067	372,843	311,813
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	419,434	273,369	80	29,493	10,159	2,085	35,159	69,089	-
AGRICULTURAL COOPERATIVE SVC	2,469	-	-	-	-	-	-	2,469	-
AGRICULTURAL MARKETING SERVICE	1,141	1,141	-	-	-	-	-	-	-
ECONOMICS & STATISTICS SERVICE	27,987	-	-	-	-	280	-	27,707	-
FOREST SERVICE	79,300	49,484	80	2,695	8,247	872	8,881	9,041	-
OFF OF INTERNAT'L COOPERATION & DEV	2,808	2,808	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION .	305,729	219,936	-	26,798	1,912	933	26,278	29,872	-
AGRICULTURAL RESEARCH	186,470	137,988	-	20,836	1,166	933	22,190	3,357	-
AGRICULTURAL COOPERATIVE RESEARCH	119,259	81,948	-	5,962	746	-	4,088	26,515	-
DEPARTMENT OF COMMERCE, TOTAL	225,173	61,660	143	28,311	77,404	7,353	43,250	7,012	40
BUREAU OF THE CENSUS	1,680	-	143	-	-	1,075	-	422	40
ECONOMIC DEVELOPMENT ADMINISTRATION	1,600	-	-	-	-	-	-	1,600	-
MARITIME ADMINISTRATION	9,166	-	-	-	-	600	8,066	500	-
NATIONAL BUREAU OF STANDARDS	49,160	-	-	23,692	529	4,968	19,219	753	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	153,368	61,660	-	4,609	76,876	710	6,800	2,713	-
NAT'L TELECOMM & INFORMATION ADMIN .	10,189	-	-	-	-	-	9,165	1,024	-
OFFICE OF THE SECRETARY	10	-	-	10	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,971,079	116,285	48,196	313,588	100,493	111,535	1,118,920	844	161,218
DEPARTMENT OF THE ARMY	370,680	62,425	20,367	54,517	11,671	7,058	208,984	742	4,916
DEPARTMENT OF THE NAVY	461,100	8,165	7,895	101,639	16,840	46,976	279,585	-	-
DEPARTMENT OF THE AIR FORCE	430,500	34,696	17,661	47,078	30,476	24,500	325,212	-	877
DEFENSE AGENCIES	658,799	10,999	2,273	110,354	41,506	33,001	305,139	102	155,425
DEPARTMENT OF EDUCATION, TOTAL	69,974	14,935	2,157	-	-	-	5,441	34,924	12,517
DEPARTMENT OF ENERGY	812,749	117,047	-	412,127	113,130	1,668	150,629	2,602	15,545
DEPT OF HLTH & HUMAN SERVICES, TOTAL .	1,598,834	1,255,210	48,255	26,825	-	4,248	17,878	143,469	102,949
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	125,931	66,872	36,369	556	-	325	48	19,259	2,402
CENTERS FOR DISEASE CONTROL	80,844	80,844	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	74,900	74,900	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	46,000	-	-	-	-	-	-	46,000	-
HEALTH RESOURCES ADMINISTRATION	5,155	-	-	-	-	-	-	-	5,155
HEALTH SERVICES ADMINISTRATION	4,479	4,179	-	-	-	-	-	-	300
NATIONAL INSTITUTES OF HEALTH	1,138,645	1,028,415	11,886	26,269	-	3,923	17,830	5,230	95,092
OFFICE OF ASST'T SECY FOR HEALTH ...	16,529	-	-	-	-	-	-	16,529	-
OFF OF HUMAN DEVELOPMENT SERVICES ..	16,303	-	-	-	-	-	-	16,303	-
OFFICE OF THE SECRETARY	19,900	-	-	-	-	-	-	19,900	-
SOCIAL SECURITY ADMINISTRATION	20,248	-	-	-	-	-	-	20,248	-
DEPT OF HOUSING & URBAN DEVELOPMENT ..	19,054	-	-	-	-	-	1,416	17,638	-
DEPARTMENT OF THE INTERIOR, TOTAL	287,008	84,059	122	6,711	117,508	6,440	68,153	3,827	188
BUREAU OF LAND MANAGEMENT	1,458	1,248	-	-	135	-	-	75	-
BUREAU OF MINES	67,100	-	-	700	11,400	4,100	50,900	-	-
GEOLOGICAL SURVEY	109,874	-	-	4,760	93,833	2,302	8,979	-	-
NATIONAL PARK SERVICE	10,025	5,762	-	400	1,439	-	24	2,400	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	6,290	1,180	-	505	850	-	3,165	590	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	4,490	1,049	122	346	1,125	38	1,170	592	38
US FISH & WILDLIFE SERVICE	74,370	74,370	-	-	-	-	-	-	-
WATER AND POWER RESOURCES SERVICE ..	13,411	450	-	-	8,726	-	3,915	170	150
DEPARTMENT OF JUSTICE, TOTAL	16,533	-	2,354	-	450	50	1,116	12,563	-
DRUG ENFORCEMENT ADMINISTRATION	700	-	50	-	-	50	600	-	-
FEDERAL PRISON SYSTEM	1,057	-	-	-	-	-	-	1,057	-
IMMIGRATION & NATURALIZATION SVC ...	516	-	-	-	-	-	516	-	-
OFFICE OF THE ATTORNEY GENERAL	1,500	-	-	-	-	-	-	1,500	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	12,760	-	2,304	-	450	-	-	10,006	-
DEPARTMENT OF LABOR, TOTAL	32,956	-	-	-	-	-	-	32,956	-
BUREAU OF LABOR STATISTICS	838	-	-	-	-	-	-	838	-
EMPLOYMENT STANDARDS ADMINISTRATION	5,900	-	-	-	-	-	-	5,900	-
EMPLOYMENT & TRAINING ADMIN	14,151	-	-	-	-	-	-	14,151	-
LABOR-MANAGEMENT SERVICES ADMIN	3,055	-	-	-	-	-	-	3,055	-
OCCUPATIONAL SAFETY & HEALTH ADMIN .	8,000	-	-	-	-	-	-	8,000	-
OFFICE OF THE SECRETARY	1,012	-	-	-	-	-	-	1,012	-
DEPARTMENT OF STATE, TOTAL	1,727	25	-	65	158	-	-	1,479	-
DEPARTMENTAL FUNDS	1,727	25	-	65	158	-	-	1,479	-

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TABLE C-53. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	91,141	6,913	-	1,500	500	909	54,606	18,910	7,803
COAST GUARD	15,800	-	-	1,500	500	-	6,000	100	7,700
FEDERAL AVIATION ADMINISTRATION	9,500	-	-	-	-	-	9,500	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,700	196	-	-	-	92	4,015	294	103
FEDERAL RAILROAD ADMINISTRATION	8,400	-	-	-	-	31	8,358	11	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	38,369	6,717	-	-	-	-	15,474	16,178	-
OFFICE OF THE SECRETARY	740	-	-	-	-	-	400	340	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	5,100	-	-	-	-	786	2,327	1,987	-
URBAN MASS TRANSPORTATION ADMIN	8,532	-	-	-	-	-	8,532	-	-
DEPARTMENT OF THE TREASURY, TOTAL	4,347	-	-	2,012	-	846	-	308	1,181
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	100	-	-	50	-	-	-	-	50
BUREAU OF ENGRAVING AND PRINTING ...	1,862	-	-	1,862	-	-	-	-	-
CUSTOMS SERVICE	100	-	-	100	-	-	-	-	-
INTERNAL REVENUE SERVICE	2,285	-	-	-	-	846	-	308	1,131
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,827	-	-	-	-	-	-	1,827	-
APPALACHIAN REGIONAL COMMISSION	280	-	-	-	-	-	-	280	-
COMMUNITY SERVICES ADMINISTRATION	1,000	-	-	-	-	-	-	1,000	-
CONSUMER PRODUCT SAFETY COMMISSION ...	2,700	1,684	-	-	-	-	1,016	-	-
ENVIRONMENTAL PROTECTION AGENCY	245,700	72,055	-	78,489	2,949	300	90,695	1,323	-
FEDERAL COMMUNICATIONS COMMISSION	2,690	-	-	-	-	7	1,620	1,058	5
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	9,954	649	442	1,545	532	553	4,324	1,427	482
FEDERAL HOME LOAN BANK BOARD	1,150	-	-	-	-	-	-	1,150	-
FEDERAL TRADE COMMISSION	2,115	-	-	-	-	-	-	2,115	-
GENERAL SERVICES ADMINISTRATION	373	-	-	-	-	250	123	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	220	-	-	-	-	-	220	-	-
INTERNAT'L DEV COOPERATION AGENCY	87,160	77,256	-	-	-	700	6,204	3,000	-
AGENCY FOR INTERNAT'L DEVELOPMENT ..	87,160	77,256	-	-	-	700	6,204	3,000	-
INTERSTATE COMMERCE COMMISSION	175	-	-	-	-	50	-	125	-
LIBRARY OF CONGRESS	500	-	-	-	-	-	-	-	500
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,014,172	44,536	1,178	12,479	289,730	2,515	663,034	50	650
NATIONAL SCIENCE FOUNDATION	59,764	5,786	1,380	6,269	2,473	5,601	19,467	9,903	8,585
NUCLEAR REGULATORY COMMISSION	207,673	-	-	-	-	-	207,673	-	-
OFFICE OF PERSONNEL MANAGEMENT	4,027	-	3,127	-	-	-	-	900	-
TENNESSEE VALLEY AUTHORITY	12,900	1,400	-	-	-	-	11,500	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	1,050	10	-	-	-	175	735	80	50
US INTERNATIONAL TRADE COMMISSION	2,994	-	-	-	-	-	-	2,994	-
VETERANS ADMINISTRATION	114,200	99,165	11,137	-	-	-	3,898	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-94. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	7,982,850	2,307,248	129,942	1,162,798	761,048	159,050	2,763,952	360,173	338,609
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	462,838	302,209	87	32,621	11,177	2,293	38,836	75,615	-
AGRICULTURAL COOPERATIVE SVC	2,514	-	-	-	-	-	-	2,514	-
AGRICULTURAL MARKETING SERVICE	1,169	1,169	-	-	-	-	-	-	-
ECONOMICS & STATISTICS SERVICE	30,370	-	-	-	-	303	-	30,067	-
FOREST SERVICE	87,100	54,351	87	2,961	9,059	958	9,756	9,928	-
OFF OF INTERNAT'L COOPERATION & DEV	3,197	3,197	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	338,488	243,492	-	29,660	2,118	1,032	29,080	33,106	-
AGRICULTURAL RESEARCH	206,289	152,653	-	23,051	1,291	1,032	24,548	3,714	-
AGRICULTURAL COOPERATIVE RESEARCH	132,199	90,839	-	6,609	827	-	4,532	29,392	-
DEPARTMENT OF COMMERCE, TOTAL	192,016	44,924	142	29,716	63,366	8,489	42,305	3,034	40
BUREAU OF THE CENSUS	1,676	-	142	-	-	1,073	-	421	40
MARITIME ADMINISTRATION	8,410	-	-	-	-	500	7,710	200	-
NATIONAL BUREAU OF STANDARDS	56,614	-	-	24,676	542	6,143	24,478	775	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	115,956	44,924	-	5,040	62,824	773	2,217	178	-
NAT'L TELECOMM & INFORMATION ADMIN	9,360	-	-	-	-	-	7,900	1,460	-
DEPARTMENT OF DEFENSE, TOTAL	2,426,176	125,916	61,335	463,774	125,763	123,369	1,339,125	916	185,978
DEPARTMENT OF THE ARMY	447,140	64,299	26,995	69,238	14,809	6,774	259,047	916	5,062
DEPARTMENT OF THE NAVY	526,400	7,295	11,900	133,570	18,170	47,932	307,533	-	-
DEPARTMENT OF THE AIR FORCE	513,600	40,405	21,400	51,691	35,400	25,035	338,589	-	1,080
DEFENSE AGENCIES	939,036	13,917	1,040	209,275	57,384	43,628	433,956	-	179,836
DEPARTMENT OF EDUCATION, TOTAL	39,624	1,075	350	-	-	-	85	25,377	12,737
DEPARTMENT OF ENERGY	939,104	116,328	-	507,589	109,641	2,029	181,606	3,144	18,767
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,681,755	1,324,067	52,128	28,886	-	4,526	19,106	148,160	104,882
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	135,816	72,442	39,423	809	-	333	49	19,816	2,944
CENTERS FOR DISEASE CONTROL	77,085	77,085	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	75,400	75,400	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	46,000	-	-	-	-	-	-	46,000	-
HEALTH SERVICES ADMINISTRATION	300	-	-	-	-	-	-	-	300
NATIONAL INSTITUTES OF HEALTH	1,270,400	1,099,140	12,705	28,077	-	4,193	19,057	5,590	101,638
OFFICE OF ASST'T SECY FOR HEALTH	10,127	-	-	-	-	-	-	10,127	-
OFF OF HUMAN DEVELOPMENT SERVICES	22,607	-	-	-	-	-	-	22,607	-
OFFICE OF THE SECRETARY	15,700	-	-	-	-	-	-	15,700	-
SOCIAL SECURITY ADMINISTRATION	28,320	-	-	-	-	-	-	28,320	-
DEPT OF HOUSING & URBAN DEVELOPMENT	20,412	-	-	-	-	-	1,222	19,190	-
DEPARTMENT OF THE INTERIOR, TOTAL	273,597	79,654	-	7,231	112,745	5,877	64,830	3,210	50
BUREAU OF LAND MANAGEMENT	1,580	1,280	-	-	300	-	-	-	-
BUREAU OF MINES	63,800	-	-	1,400	6,600	3,150	52,650	-	-
GEOLOGICAL SURVEY	114,174	-	-	5,031	98,159	2,727	8,257	-	-
NATIONAL PARK SERVICE	13,371	7,087	-	800	2,334	-	-	3,150	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,170	200	-	-	450	-	520	-	-
US FISH & WILDLIFE SERVICE	70,737	70,737	-	-	-	-	-	-	-
WATER AND POWER RESOURCES SERVICE	8,765	350	-	-	4,902	-	3,403	60	50
DEPARTMENT OF JUSTICE, TOTAL	11,910	275	550	50	225	-	728	10,082	-
DRUG ENFORCEMENT ADMINISTRATION	600	-	50	50	-	-	500	-	-
FEDERAL PRISON SYSTEM	1,057	-	-	-	-	-	-	1,057	-
IMMIGRATION & NATURALIZATION SVC	228	-	-	-	-	-	228	-	-
OFFICE OF THE ATTORNEY GENERAL	1,000	-	-	-	-	-	-	1,000	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	9,025	275	500	-	225	-	-	8,025	-
DEPARTMENT OF LABOR, TOTAL	27,160	-	-	-	-	-	-	27,160	-
BUREAU OF LABOR STATISTICS	879	-	-	-	-	-	-	879	-
EMPLOYMENT STANDARDS ADMINISTRATION	4,900	-	-	-	-	-	-	4,900	-
EMPLOYMENT & TRAINING ADMIN	8,965	-	-	-	-	-	-	8,965	-
LABOR-MANAGEMENT SERVICES ADMIN	3,055	-	-	-	-	-	-	3,055	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	8,300	-	-	-	-	-	-	8,300	-
OFFICE OF THE SECRETARY	1,061	-	-	-	-	-	-	1,061	-
DEPARTMENT OF STATE, TOTAL	1,827	25	-	65	179	-	-	1,559	-
DEPARTMENTAL FUNDS	1,827	25	-	65	179	-	-	1,559	-

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TABLE C-54. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	91,590	6,726	-	1,000	500	1,105	57,792	19,964	5,503
COAST GUARD	17,000	-	-	1,000	500	-	10,000	100	5,400
FEDERAL AVIATION ADMINISTRATION	9,000	-	-	-	-	-	9,000	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,700	196	-	-	-	92	4,015	294	103
FEDERAL RAILROAD ADMINISTRATION	7,000	-	-	-	-	26	6,965	9	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	37,300	6,530	-	-	-	-	15,042	15,728	-
OFFICE OF THE SECRETARY	740	-	-	-	-	-	400	340	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	6,400	-	-	-	-	987	2,920	2,493	-
URBAN MASS TRANSPORTATION ADMIN	9,450	-	-	-	-	-	9,450	-	-
DEPARTMENT OF THE TREASURY, TOTAL	5,239	-	-	1,910	-	1,800	-	327	1,201
BUREAU OF ENGRAVING AND PRINTING ...	1,810	-	-	1,810	-	-	-	-	-
CUSTOMS SERVICE	100	-	-	100	-	-	-	-	-
INTERNAL REVENUE SERVICE	3,328	-	-	-	-	1,800	-	327	1,201
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,029	-	-	-	-	-	-	2,029	-
APPALACHIAN REGIONAL COMMISSION	300	-	-	-	-	-	-	300	-
CONSUMER PRODUCT SAFETY COMMISSION ...	2,100	1,310	-	-	-	-	790	-	-
ENVIRONMENTAL PROTECTION AGENCY	201,400	60,879	-	64,459	2,775	-	72,077	1,210	-
FEDERAL COMMUNICATIONS COMMISSION	1,925	-	-	-	-	7	1,084	830	4
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	12,748	831	566	1,979	681	707	5,537	1,929	618
FEDERAL HOME LOAN BANK BOARD	1,321	-	-	-	-	-	-	1,321	-
FEDERAL TRADE COMMISSION	2,222	-	-	-	-	-	-	2,222	-
GENERAL SERVICES ADMINISTRATION	134	-	-	-	-	-	134	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	138	-	-	-	-	-	138	-	-
INTERNAT'L DEV COOPERATION AGENCY	98,508	82,548	-	-	-	900	12,560	2,500	-
AGENCY FOR INTERNAT'L DEVELOPMENT ..	98,508	82,548	-	-	-	900	12,560	2,500	-
INTERSTATE COMMERCE COMMISSION	150	-	-	-	-	50	-	100	-
LIBRARY OF CONGRESS	500	-	-	-	-	-	-	-	500
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,060,930	45,844	1,243	16,463	331,256	4,762	660,612	75	675
NATIONAL SCIENCE FOUNDATION	54,456	6,151	600	6,778	2,541	2,924	20,849	6,959	7,554
NUCLEAR REGULATORY COMMISSION	224,540	-	-	-	-	-	224,540	-	-
OFFICE OF PERSONNEL MANAGEMENT	2,627	-	2,627	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	15,700	1,800	-	-	-	-	13,900	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	2,150	-	-	277	200	212	1,326	135	-
US INTERNATIONAL TRADE COMMISSION	3,926	-	-	-	-	-	-	3,926	-
VETERANS ADMINISTRATION	121,800	106,686	10,314	-	-	-	4,800	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-55. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIOLOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHOLOGICAL SCIENCES NEC	TOTAL	BIOLOGICAL	ENVIRONMENTAL BIOLOGY	AGRICULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	114,803	29,722	63,546	21,535	2,137,910	730,755	143,623	293,746	879,925	89,861
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	72	-	72	-	250,000	29,113	47,030	168,673	5,184	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	1,000	-	-	1,000	-	-
FOREST SERVICE	72	-	72	-	45,133	11,500	33,633	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	2,603	-	-	2,603	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	201,264	17,613	13,397	165,070	5,184	-
AGRICULTURAL RESEARCH	-	-	-	-	126,377	9,984	13,397	102,744	252	-
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	74,887	7,629	-	62,326	4,932	-
DEPARTMENT OF COMMERCE, TOTAL	119	-	119	-	53,592	-	-	53,592	-	-
BUREAU OF THE CENSUS	119	-	119	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	53,592	-	-	53,592	-	-
DEPARTMENT OF DEFENSE, TOTAL	45,062	-	38,505	6,557	100,371	38,757	2,975	226	59,495	3,918
DEPARTMENT OF THE ARMY	20,747	-	20,747	-	50,413	2,610	1,495	226	46,032	50
DEPARTMENT OF THE NAVY	6,557	-	-	6,557	8,915	698	300	-	7,817	-
DEPARTMENT OF THE AIR FORCE	15,390	-	15,390	-	30,744	28,927	1,180	-	637	-
DEFENSE AGENCIES	2,368	-	2,368	-	10,399	6,522	-	-	9	3,868
DEPARTMENT OF EDUCATION, TOTAL	2,052	-	-	2,052	15,305	-	-	-	13,524	1,781
DEPARTMENT OF ENERGY	-	-	-	-	116,692	63,218	3,356	3,801	7,285	39,032
DEPT OF HLTH & HUMAN SERVICES, TOTAL	51,845	21,680	18,126	12,039	1,224,178	529,858	49	-	651,952	42,319
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	40,411	21,680	18,126	605	65,077	31,759	49	-	16,435	16,834
CENTERS FOR DISEASE CONTROL	-	-	-	-	87,257	-	-	-	87,257	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	75,400	66,352	-	-	9,048	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	5,691	-	-	-	5,691	-
NATIONAL INSTITUTES OF HEALTH	11,434	-	-	11,434	990,753	431,747	-	-	533,521	25,485
DEPARTMENT OF THE INTERIOR, TOTAL	462	-	323	139	81,138	38,960	40,756	1,387	79	55
BUREAU OF LAND MANAGEMENT	-	-	-	-	1,148	110	200	838	-	-
NATIONAL PARK SERVICE	-	-	-	-	4,444	-	4,444	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	139	-	-	139	1,073	-	524	549	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	323	-	323	-	2,619	2,484	-	-	79	56
US FISH & WILDLIFE SERVICE	-	-	-	-	71,444	35,956	35,588	-	-	-
WATER AND POWER RESOURCES SERVICE	-	-	-	-	410	410	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	1,757	-	1,167	590	100	-	-	-	100	-
DRUG ENFORCEMENT ADMINISTRATION	100	-	-	100	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	1,657	-	1,167	490	100	-	-	-	100	-
DEPARTMENT OF LABOR, TOTAL	192	-	192	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	192	-	192	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	41	-	-	41	-	-
DEPARTMENTAL FUNDS	-	-	-	-	41	-	-	41	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	7,030	6,760	-	-	-	270
FEDERAL HIGHWAY ADMINISTRATION	-	-	-	-	270	-	-	-	-	270
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	6,760	6,760	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	1,421	-	-	-	-	1,421
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	68,999	-	44,560	14,141	10,298	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	297	-	297	-	436	-	354	-	82	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	63,971	3,122	200	40,520	20,129	-
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	63,971	3,122	200	40,520	20,129	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,323	-	1,165	158	53,705	5,482	1,420	11,365	33,548	1,890
NATIONAL SCIENCE FOUNDATION	1,621	370	1,251	-	8,071	5,974	1,923	-	-	174
OFFICE OF PERSONNEL MANAGEMENT	2,301	-	2,301	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	2,000	1,000	1,000	-	-	-
VETERANS ADMINISTRATION	7,700	7,672	28	-	90,860	7,611	-	-	83,249	-

SOURCE: NATIONAL SCIENCE FOUNDATION

~~TABLE C-35~~. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	118,571	30,521	61,118	26,932	2,232,044	770,496	157,216	312,471	903,014	88,845
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	80	-	80	-	273,369	31,959	51,502	184,335	5,673	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	1,141	-	-	1,141	-	-
FOREST SERVICE	80	-	80	-	49,484	12,609	3[illegible],875	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	2,809	-	-	2,809	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	219,936	19,249	14,627	180,397	5,673	-
AGRICULTURAL RESEARCH	-	-	-	-	137,988	10,901	14,627	112,194	276	-
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	81,948	9,349	-	68,233	5,397	-
DEPARTMENT OF COMMERCE, TOTAL	143	-	143	-	61,660	-	-	61,660	-	-
BUREAU OF THE CENSUS	143	-	143	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	61,660	-	-	61,660	-	-
DEPARTMENT OF DEFENSE, TOTAL	48,196	-	40,206	7,990	116,285	42,644	3,699	233	65,419	4,290
DEPARTMENT OF THE ARMY	20,367	-	20,367	-	62,425	2,433	2,121	233	57,591	47
DEPARTMENT OF THE NAVY	7,895	-	-	7,895	8,165	728	298	-	7,139	-
DEPARTMENT OF THE AIR FORCE	17,661	-	17,661	-	34,696	32,727	1,280	-	689	-
DEFENSE AGENCIES	2,273	-	2,178	95	10,999	6,756	-	-	-	4,243
DEPARTMENT OF EDUCATION, TOTAL	2,15[illegible]	-	-	2,157	14,935	-	-	-	13,320	1,615
DEPARTMENT OF ENERGY	-	-	-	-	117,047	65,304	2,895	3,213	6,424	39,239
DEPT OF HLTH & HUMAN SERVICES, TOTAL	48,255	19,126	13,594	15,535	1,255,210	545,653	-	-	668,812	40,745
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	36,369	19,126	13,594	3,649	66,872	31,623	-	-	19,011	16,238
CENTERS FOR DISEASE CONTROL	-	-	-	-	80,844	-	-	-	80,844	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	74,900	65,912	-	-	8,988	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	4,179	-	-	-	4,179	-
NATIONAL INSTITUTES OF HEALTH	11,885	-	-	11,886	1,028,415	448,118	-	-	555,790	24,507
DEPARTMENT OF THE INTERIOR, TOTAL	122	-	122	-	84,059	54,988	27,579	1,440	31	21
BUREAU OF LAND MANAGEMENT	-	-	-	-	1,248	120	200	928	-	-
NATIONAL PARK SERVICE	-	-	-	-	5,762	-	5,762	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	1,180	-	668	512	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	122	-	122	-	1,049	997	-	-	31	21
US FISH & WILDLIFE SERVICE	-	-	-	-	74,370	53,421	20,949	-	-	-
WATER AND POWER RESOURCES SERVICE	-	-	-	-	450	450	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	2,354	-	1,304	1,050	-	-	-	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	50	-	-	50	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	2,304	-	1,304	1,000	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	25	-	-	25	-	-
DEPARTMENTAL FUNDS	-	-	-	-	25	-	-	25	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	6,913	6,717	-	-	-	196
FEDERAL HIGHWAY ADMINISTRATION	-	-	-	-	196	-	-	-	-	196
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	6,717	6,717	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	1,684	-	-	-	-	1,684
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	72,055	-	68,343	-	3,712	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	442	-	442	-	649	527	-	-	122	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	77,256	2,075	225	47,987	26,969	-
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	77,256	2,075	225	47,987	26,969	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,178	-	978	200	44,536	6,533	1,125	13,580	22,398	900
NATIONAL SCIENCE FOUNDATION	1,380	275	1,105	-	5,786	4,251	1,350	-	-	185
OFFICE OF PERSONNEL MANAGEMENT	3,127	-	3,127	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	1,400	900	500	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	-	-	-	-	10	10	-	-	-	-
VETERANS ADMINISTRATION	11,137	11,120	17	-	99,165	9,036	-	-	90,129	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-57. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	129,942	31,451	65,930	32,561	2,307,248	819,442	155,042	322,900	922,989	86,875
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	87	-	87	-	302,209	35,163	56,684	204,075	6,287	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	1,169	-	-	1,169	-	-
FOREST SERVICE	87	-	87	-	54,351	13,849	40,502	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	3,197	-	-	3,197	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	243,492	21,314	16,182	199,709	6,287	-
AGRICULTURAL RESEARCH	-	-	-	-	152,653	12,060	16,182	124,106	305	-
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	90,839	9,254	-	75,603	5,982	-
DEPARTMENT OF COMMERCE, TOTAL	142	-	142	-	44,924	-	-	44,924	-	-
BUREAU OF THE CENSUS	142	-	142	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	44,924	-	-	44,924	-	-
DEPARTMENT OF DEFENSE, TOTAL	61,335	-	49,284	12,051	125,916	50,814	3,970	257	65,382	5,493
DEPARTMENT OF THE ARMY	26,995	-	26,995	-	64,299	3,313	2,467	257	58,209	53
DEPARTMENT OF THE NAVY	11,900	-	-	11,900	7,295	929	-	-	6,366	-
DEPARTMENT OF THE AIR FORCE	21,400	-	21,400	-	40,405	38,095	1,503	-	807	-
DEFENSE AGENCIES	1,040	-	889	151	13,917	8,477	-	-	-	5,440
DEPARTMENT OF EDUCATION, TOTAL	350	-	-	350	1,075	-	-	-	1,075	-
DEPARTMENT OF ENERGY	-	-	-	-	116,328	65,987	1,000	3,390	7,814	38,137
DEPT OF HLTH & HUMAN SERVICES, TOTAL	52,128	21,039	14,356	16,733	1,324,067	581,461	-	-	702,242	40,364
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	39,423	21,039	14,356	4,028	72,442	35,142	-	-	22,267	15,033
CENTERS FOR DISEASE CONTROL	-	-	-	-	77,085	-	-	-	77,085	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	75,400	66,352	-	-	9,048	-
NATIONAL INSTITUTES OF HEALTH	12,705	-	-	12,705	1,099,140	479,967	-	-	593,842	25,331
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	79,654	48,317	30,297	1,040	-	-
BUREAU OF LAND MANAGEMENT	-	-	-	-	1,280	140	200	940	-	-
NATIONAL PARK SERVICE	-	-	-	-	7,087	-	7,087	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	200	-	100	100	-	-
US FISH & WILDLIFE SERVICE	-	-	-	-	70,737	47,827	22,910	-	-	-
WATER AND POWER RESOURCES SERVICE	-	-	-	-	350	350	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	550	-	-	550	275	-	-	-	275	-
DRUG ENFORCEMENT ADMINISTRATION	50	-	-	50	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	500	-	-	500	275	-	-	-	275	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	25	-	-	25	-	-
DEPARTMENTAL FUNDS	-	-	-	-	25	-	-	25	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	6,726	6,530	-	-	-	196
FEDERAL HIGHWAY ADMINISTRATION	-	-	-	-	196	-	-	-	-	196
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	6,530	6,530	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	1,310	-	-	-	-	1,310
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	60,879	-	58,901	-	1,978	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	566	-	566	-	831	674	-	-	157	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	82,548	2,450	865	53,928	25,305	-
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	82,548	2,450	865	53,928	25,305	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,243	-	993	250	44,844	5,712	1,125	15,261	21,821	925
NATIONAL SCIENCE FOUNDATION	600	150	450	-	6,151	4,201	1,500	-	-	450
OFFICE OF PERSONNEL MANAGEMENT	2,627	-	-	2,627	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	1,800	1,100	700	-	-	-
VETERANS ADMINISTRATION	10,314	10,262	52	-	106,686	16,033	-	-	90,653	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-55. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	778,952	6,251	197,480	513,453	61,768	726,744	222,295	203,353	127,930	173,265
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	26,866	-	24,875	1,991	-	9,395	2,691	6,704	-	-
FOREST SERVICE	2,460	-	1,664	796	-	7,521	1,157	6,364	-	-
SCIENCE & EDUCATION ADMINISTRATION	24,406	-	23,211	1,195	-	1,874	1,534	340	-	-
AGRICULTURAL RESEARCH	18,957	-	17,762	1,195	-	1,192	852	340	-	-
AGRICULTURAL COOPERATIVE RESEARCH	5,449	-	5,449	-	-	682	682	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	26,313	114	7,152	18,972	75	93,687	32,313	1,813	59,524	37
NATIONAL BUREAU OF STANDARDS	21,271	114	5,942	15,140	75	377	192	185	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	4,804	-	1,210	3,594	-	93,310	32,121	1,628	59,524	37
OFFICE OF THE SECRETARY	238	-	-	238	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	243,399	1,498	42,549	158,217	41,135	98,677	61,195	10,722	18,889	7,871
DEPARTMENT OF THE ARMY	54,269	-	24,164	10,804	19,301	16,210	5,835	4,745	343	5,287
DEPARTMENT OF THE NAVY	59,025	1,498	5,260	45,710	6,557	20,545	4,719	-	15,826	-
DEPARTMENT OF THE AIR FORCE	41,466	-	12,500	28,966	-	29,100	25,300	3,800	-	-
DEFENSE AGENCIES	88,639	-	625	72,737	15,277	32,822	25,341	2,177	2,720	2,584
DEPARTMENT OF ENERGY	359,960	-	22,205	321,271	16,484	109,166	15,937	24,891	14,284	54,054
DEPT OF HLTH & HUMAN SERVICES, TOTAL	26,054	-	22,502	3,552	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	696	-	696	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	25,358	-	21,806	3,552	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	6,400	-	4,448	1,552	400	111,154	10,784	84,697	8,976	6,697
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	100	-	100	-	-
BUREAU OF MINES	800	-	800	-	-	12,000	-	6,600	-	5,400
GEOLOGICAL SURVEY	3,662	-	2,930	732	-	84,103	-	75,248	8,855	-
NATIONAL PARK SERVICE	400	-	-	-	400	997	668	313	-	16
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	705	-	-	705	-	1,155	-	516	-	639
OFFICE OF WATER RSCH & TECHNOLOGY	833	-	718	115	-	2,825	242	1,920	21	642
WATER AND POWER RESOURCES SERVICE	-	-	-	-	-	9,974	9,874	-	100	-
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	-	320	-	-	-	320
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	-	320	-	-	-	320
DEPARTMENT OF STATE, TOTAL	70	-	-	-	70	195	-	73	15	107
DEPARTMENTAL FUNDS	70	-	-	-	70	195	-	73	15	107
DEPARTMENT OF TRANSPORTATION, TOTAL	1,200	-	1,200	-	-	1,048	48	-	1,000	-
COAST GUARD	1,200	-	1,200	-	-	1,000	-	-	1,000	-
RESEARCH & SPECIAL PROGRAMS ADMIN	-	-	-	-	-	48	48	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	1,450	-	311	306	833	-	-	-	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	50	-	25	25	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,300	-	286	181	833	-	-	-	-	-
CUSTOMS SERVICE	100	-	-	100	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	69,283	-	68,408	875	-	5,188	810	4,226	152	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	1,038	-	-	1,038	-	357	-	357	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	12,253	4,614	1,491	3,902	2,246	294,374	98,246	67,834	24,975	103,319
NATIONAL SCIENCE FOUNDATION	4,652	25	2,339	1,777	511	3,021	109	2,036	15	861
US ARMS CONTROL & DISARMAMENT AGENCY	14	-	-	-	14	162	162	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-59. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	919,414	6,315	222,713	619,841	70,545	715,385	214,074	221,396	109,117	170,798
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	29,493	-	27,309	2,184	-	10,159	2,815	7,344	-	-
FOREST SERVICE	2,695	-	1,823	872	-	8,247	1,269	6,978	-	-
SCIENCE & EDUCATION ADMINISTRATION	26,798	-	25,486	1,312	-	1,912	1,546	366	-	-
AGRICULTURAL RESEARCH	20,836	-	19,524	1,312	-	1,166	800	366	-	-
AGRICULTURAL COOPERATIVE RESEARCH	5,962	-	5,962	-	-	746	746	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	28,311	115	7,354	20,842	-	77,404	33,415	1,444	42,545	-
NATIONAL BUREAU OF STANDARDS	23,692	115	6,291	17,286	-	528	268	260	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	4,609	-	1,063	3,546	-	76,876	33,147	1,184	42,545	-
OFFICE OF THE SECRETARY	10	-	-	10	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	313,588	1,200	46,515	213,746	52,127	100,493	59,629	20,905	15,677	4,282
DEPARTMENT OF THE ARMY	54,517	-	24,042	15,563	14,912	11,671	5,430	4,263	434	1,544
DEPARTMENT OF THE NAVY	101,639	1,200	9,043	81,970	9,426	16,840	5,720	-	11,120	-
DEPARTMENT OF THE AIR FORCE	47,079	-	13,150	31,828	2,100	30,476	26,376	4,100	-	-
DEFENSE AGENCIES	110,354	-	280	84,385	25,689	41,506	22,103	12,542	4,123	2,738
DEPARTMENT OF ENERGY	412,127	-	29,138	369,902	13,097	113,130	15,850	23,703	11,681	61,896
DEPT OF HLTH & HUMAN SERVICES, TOTAL	26,825	-	23,140	3,685	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	556	-	556	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	26,269	-	22,584	3,685	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	6,711	-	4,810	996	905	117,508	9,521	92,213	9,769	6,005
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	135	-	-	-	135
BUREAU OF MINES	700	-	700	-	-	11,400	-	6,300	-	5,100
GEOLOGICAL SURVEY	4,760	-	3,808	952	-	93,833	-	84,172	9,661	-
NATIONAL PARK SERVICE	400	-	-	-	400	1,439	805	603	-	31
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	505	-	-	-	505	850	-	354	-	496
OFFICE OF WATER RSCH & TECHNOLOGY	346	-	302	44	-	1,125	90	784	8	243
WATER AND POWER RESOURCES SERVICE	-	-	-	-	-	8,726	8,626	-	100	-
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	-	450	-	-	-	450
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	-	450	-	-	-	450
DEPARTMENT OF STATE, TOTAL	65	-	-	-	65	158	-	25	45	88
DEPARTMENTAL FUNDS	65	-	-	-	65	158	-	25	45	88
DEPARTMENT OF TRANSPORTATION, TOTAL	1,500	-	1,500	-	-	500	-	-	500	-
COAST GUARD	1,500	-	1,500	-	-	500	-	-	500	-
DEPARTMENT OF THE TREASURY, TOTAL	2,012	-	434	385	1,193	-	-	-	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	50	-	25	25	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,862	-	409	260	1,193	-	-	-	-	-
CUSTOMS SERVICE	100	-	-	100	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	78,499	-	78,499	-	-	2,848	1,521	952	375	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	1,545	-	-	1,545	-	532	532	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	12,479	5,000	1,111	4,200	2,168	289,730	90,761	72,862	28,325	97,782
NATIONAL SCIENCE FOUNDATION	6,269	-	2,913	2,356	1,000	2,473	30	1,948	200	295

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-60. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,162,798	6,482	243,371	816,081	96,864	761,048	236,249	248,702	99,144	176,953
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	32,621	-	30,211	2,410	-	11,177	3,107	8,070	-	-
FOREST SERVICE	2,961	-	2,003	959	-	9,059	1,394	7,665	-	-
SCIENCE & EDUCATION ADMINISTRATION	29,660	-	28,208	1,452	-	2,118	1,713	405	-	-
AGRICULTURAL RESEARCH	23,051	-	21,599	1,452	-	1,291	886	405	-	-
AGRICULTURAL COOPERATIVE RESEARCH	6,609	-	6,609	-	-	827	827	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	29,716	115	8,164	21,437	-	63,366	31,190	5,230	26,946	-
NATIONAL BUREAU OF STANDARDS	24,676	115	7,001	17,560	-	542	275	257	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	5,040	-	1,163	3,877	-	62,824	30,915	4,953	26,946	-
DEPARTMENT OF DEFENSE, TOTAL	463,774	1,144	56,858	336,526	69,246	125,763	66,806	33,530	18,428	6,999
DEPARTMENT OF THE ARMY	69,239	-	29,285	16,574	23,379	14,809	6,507	5,469	479	2,354
DEPARTMENT OF THE NAVY	133,570	1,144	13,658	107,807	10,961	18,170	5,730	-	12,440	-
DEPARTMENT OF THE AIR FORCE	51,691	-	13,450	35,547	2,694	35,400	30,200	5,200	-	-
DEFENSE AGENCIES	209,275	-	465	176,598	32,212	57,384	24,369	22,861	5,509	4,645
DEPARTMENT OF ENERGY	507,589	-	47,529	441,493	18,567	109,641	14,352	21,659	11,056	62,574
DEPT OF HLTH & HUMAN SERVICES, TOTAL	28,886	-	24,948	3,938	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	809	-	809	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	28,077	-	24,139	3,938	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	7,231	-	5,425	1,006	800	111,745	6,657	93,365	10,077	1,645
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	300	-	-	-	300
BUREAU OF MINES	1,400	-	1,400	-	-	5,600	-	4,300	-	1,300
GEOLOGICAL SURVEY	5,031	-	4,025	1,006	-	98,159	-	88,162	9,997	-
NATIONAL PARK SERVICE	800	-	-	-	800	2,334	1,835	453	-	45
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	-	450	-	450	-	-
WATER AND POWER RESOURCES SERVICE	-	-	-	-	-	4,902	4,822	-	80	-
DEPARTMENT OF JUSTICE, TOTAL	50	-	-	-	50	225	-	-	-	225
DRUG ENFORCEMENT ADMINISTRATION	50	-	-	-	50	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	-	225	-	-	-	225
DEPARTMENT OF STATE, TOTAL	65	-	-	-	65	178	-	25	65	88
DEPARTMENTAL FUNDS	65	-	-	-	65	178	-	25	65	88
DEPARTMENT OF TRANSPORTATION, TOTAL	1,000	-	1,000	-	-	500	-	-	500	-
COAST GUARD	1,000	-	1,000	-	-	500	-	-	500	-
DEPARTMENT OF THE TREASURY, TOTAL	1,910	-	397	355	1,158	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,810	-	397	255	1,158	-	-	-	-	-
CUSTOMS SERVICE	100	-	-	100	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	64,459	-	64,459	-	-	2,775	2,050	725	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	1,979	-	-	1,979	-	681	-	681	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	16,463	5,100	1,239	4,250	5,874	331,256	111,882	82,926	31,752	104,695
NATIONAL SCIENCE FOUNDATION	6,778	40	3,141	2,687	910	2,541	15	1,991	310	225
US ARMS CONTROL & DISARMAMENT AGENCY	277	83	-	-	194	200	190	-	10	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-61. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	2,364,501	603,977	275,141	70,187	136,671	446,301	165,751	114,847	551,626
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	32,162	-	-	3,062	3,057	171	2,637	-	23,235
FOREST SERVICE	8,102	-	-	1,013	1,519	-	1,954	-	3,616
SCIENCE & EDUCATION ADMINISTRATION	24,060	-	-	2,049	1,538	171	683	-	19,619
AGRICULTURAL RESEARCH	20,324	-	-	2,049	1,538	171	683	-	15,883
AGRICULTURAL COOPERATIVE RESEARCH	3,736	-	-	-	-	-	-	-	3,736
DEPARTMENT OF COMMERCE, TOTAL	37,278	85	-	720	11,937	12,857	1,487	4,586	5,606
MARITIME ADMINISTRATION	8,744	-	-	-	8,744	-	-	-	-
NATIONAL BUREAU OF STANDARDS	18,041	85	-	720	2,437	3,412	1,487	4,294	5,606
NAT'L OCEANIC & ATMOSPHERIC ADMIN	2,071	-	-	-	756	1,023	-	292	-
NAT'L TELECOMM & INFORMATION ADMIN	8,422	-	-	-	-	8,422	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	995,489	186,702	67,813	14,539	28,603	395,636	98,640	46,825	156,731
DEPARTMENT OF THE ARMY	192,767	25,684	1,282	9,358	19,989	78,371	33,818	11,353	12,912
DEPARTMENT OF THE NAVY	262,110	38,762	-	2,195	2,269	71,573	33,781	13,120	100,410
DEPARTMENT OF THE AIR FORCE	291,028	88,050	43,300	2,570	1,940	132,654	9,407	13,107	-
DEFENSE AGENCIES	249,584	34,206	23,231	416	4,405	113,038	21,634	9,245	43,409
DEPARTMENT OF EDUCATION, TOTAL	5,906	-	-	-	-	-	-	-	5,906
DEPARTMENT OF ENERGY	150,553	-	-	14,201	1,030	14,383	23,431	14,124	83,384
DEPT OF HLTH & HUMAN SERVICES, TOTAL	17,170	-	-	-	-	-	-	-	17,170
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	49	-	-	-	-	-	-	-	49
NATIONAL INSTITUTES OF HEALTH	17,121	-	-	-	-	-	-	-	17,121
DEPT OF HOUSING & URBAN DEVELOPMENT	1,922	-	-	-	-	-	-	-	1,922
DEPARTMENT OF THE INTERIOR, TOTAL	72,248	-	-	3,949	20,029	560	6,381	40,809	520
BUREAU OF MINES	54,300	-	-	3,800	8,600	-	5,000	36,900	-
GEOLOGICAL SURVEY	8,873	-	-	-	7,142	390	1,341	-	-
NATIONAL PARK SERVICE	13	-	-	-	-	-	-	-	18
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	4,102	-	-	-	268	-	-	3,834	-
OFFICE OF WATER RSCH & TECHNOLOGY	2,933	-	-	89	2,241	26	-	75	502
WATER AND POWER RESOURCES SERVICE	2,022	-	-	60	1,779	144	40	-	-
DEPARTMENT OF JUSTICE, TOTAL	751	-	-	-	-	751	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	600	-	-	-	-	600	-	-	-
IMMIGRATION & NATURALIZATION SVC	151	-	-	-	-	151	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	52,777	1,230	574	1,087	21,173	3,530	18,479	1,224	5,480
COAST GUARD	4,600	-	-	500	-	600	-	-	3,500
FEDERAL AVIATION ADMINISTRATION	8,200	1,230	574	-	5,330	1,066	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	3,743	-	-	-	3,193	-	225	271	54
FEDERAL RAILROAD ADMINISTRATION	7,859	-	-	-	2,957	691	2,286	-	1,925
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	15,573	-	-	-	-	-	15,573	-	-
OFFICE OF THE SECRETARY	320	-	-	-	320	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	3,593	-	-	587	483	1,173	397	953	-
URBAN MASS TRANSPORTATION ADMIN	8,890	-	-	-	8,890	-	-	-	-
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	179	-	-	-	-	-	-	-	179
ENVIRONMENTAL PROTECTION AGENCY	85,253	-	-	31,966	37,081	4,426	11,780	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,553	-	-	-	-	1,553	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,905	-	-	155	903	118	815	-	914
GENERAL SERVICES ADMINISTRATION	33	-	-	-	33	-	-	-	-
INTERNATIONAL COMMUNICATION AGENCY	83	-	-	-	-	83	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	6,491	-	-	-	1,919	500	-	-	4,072
AGENCY FOR INTERNAT'L DEVELOPMENT	6,491	-	-	-	1,919	500	-	-	4,072
NATIONAL AERONAUTICS & SPACE ADMIN	686,334	415,808	206,609	33	-	2,203	1,614	3,776	55,291
NATIONAL SCIENCE FOUNDATION	17,424	-	-	442	10,876	605	387	3,503	1,611
NUCLEAR REGULATORY COMMISSION	182,672	-	-	-	-	-	-	-	182,672
TENNESSEE VALLEY AUTHORITY	3,900	-	-	-	-	3,800	100	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	1,378	152	145	33	30	125	-	-	893
VETERANS ADMINISTRATION	5,040	-	-	-	-	-	-	-	5,040

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-62. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	2,507,067	595,236	269,842	132,221	125,545	498,689	149,957	122,297	613,283
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	35,159	-	-	3,348	3,343	187	2,886	-	25,395
FOREST SERVICE	8,881	-	-	1,110	1,665	-	2,141	-	3,965
SCIENCE & EDUCATION ADMINISTRATION	26,279	-	-	2,238	1,679	187	745	-	21,430
AGRICULTURAL RESEARCH	22,190	-	-	2,238	1,679	187	745	-	17,342
AGRICULTURAL COOPERATIVE RESEARCH	4,089	-	-	-	-	-	-	-	4,089
DEPARTMENT OF COMMERCE, TOTAL	43,250	-	-	1,001	11,011	14,569	1,780	5,195	9,694
MARITIME ADMINISTRATION	8,066	-	-	-	8,066	-	-	-	-
NATIONAL BUREAU OF STANDARDS	19,219	-	-	1,001	2,945	3,527	1,780	4,722	5,244
NAT'L OCEANIC & ATMOSPHERIC ADMIN	6,800	-	-	-	-	1,877	-	473	4,450
NAT'L TELECOMM & INFORMATION ADMIN	9,165	-	-	-	-	9,165	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,118,920	205,274	64,634	41,862	30,129	446,953	93,539	62,187	174,343
DEPARTMENT OF THE ARMY	208,984	23,252	1,756	16,433	19,951	88,044	34,073	10,861	14,614
DEPARTMENT OF THE NAVY	279,585	36,780	-	22,580	3,005	74,978	32,923	23,654	85,665
DEPARTMENT OF THE AIR FORCE	325,212	92,021	45,706	2,610	2,319	150,873	9,379	14,200	8,105
DEFENSE AGENCIES	305,139	53,221	17,172	239	4,854	133,058	17,164	13,472	65,959
DEPARTMENT OF EDUCATION, TOTAL	5,441	-	-	-	-	-	-	-	5,441
DEPARTMENT OF ENERGY	150,629	-	-	15,924	980	14,213	22,170	15,500	81,842
DEPT OF HLTH & HUMAN SERVICES, TOTAL	17,879	-	-	-	-	-	-	-	17,879
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	49	-	-	-	-	-	-	-	49
NATIONAL INSTITUTES OF HEALTH	17,830	-	-	-	-	-	-	-	17,830
DEPT OF HOUSING & URBAN DEVELOPMENT	1,416	-	-	-	-	-	-	-	1,416
DEPARTMENT OF THE INTERIOR, TOTAL	68,153	-	-	3,454	19,444	544	6,157	34,850	3,704
BUREAU OF MINES	50,900	-	-	3,300	8,300	-	4,800	34,500	-
GEOLOGICAL SURVEY	8,979	-	-	-	7,272	390	1,317	-	-
NATIONAL PARK SERVICE	24	-	-	-	-	-	-	3	21
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	3,165	-	-	-	155	-	-	318	2,692
OFFICE OF WATER RSCH & TECHNOLOGY	1,170	-	-	94	847	9	-	29	191
WATER AND POWER RESOURCES SERVICE	3,915	-	-	60	2,870	145	40	-	800
DEPARTMENT OF JUSTICE, TOTAL	1,116	-	-	-	-	1,116	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	600	-	-	-	-	600	-	-	-
IMMIGRATION & NATURALIZATION SVC	516	-	-	-	-	516	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	54,606	1,425	665	953	21,761	2,957	18,854	343	7,648
COAST GUARD	6,000	-	-	-	-	500	-	-	5,500
FEDERAL AVIATION ADMINISTRATION	9,500	1,425	665	-	6,175	1,235	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,015	-	-	-	3,516	-	98	343	58
FEDERAL RAILROAD ADMINISTRATION	8,358	-	-	-	3,092	669	2,507	-	2,090
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	15,474	-	-	-	-	-	15,474	-	-
OFFICE OF THE SECRETARY	400	-	-	400	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	2,327	-	-	553	446	553	775	-	-
URBAN MASS TRANSPORTATION ADMIN	8,532	-	-	-	8,532	-	-	-	-
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	1,016	-	-	-	-	-	-	-	1,016
ENVIRONMENTAL PROTECTION AGENCY	90,685	-	-	64,902	25,783	-	-	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,620	-	-	-	-	1,620	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	4,324	-	-	231	1,344	175	1,213	-	1,361
GENERAL SERVICES ADMINISTRATION	123	-	-	50	73	-	-	-	-
INTERNATIONAL COMMUNICATION AGENCY	220	-	-	-	-	220	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	6,204	-	-	-	1,500	1,000	-	-	3,704
AGENCY FOR INTERNAT'L DEVELOPMENT	6,204	-	-	-	1,500	1,000	-	-	3,704
NATIONAL AERONAUTICS & SPACE ADMIN	663,034	388,474	204,543	40	-	2,400	1,700	500	65,377
NATIONAL SCIENCE FOUNDATION	19,467	-	-	431	10,179	1,235	1,558	3,722	2,343
NUCLEAR REGULATORY COMMISSION	207,673	-	-	-	-	-	-	-	207,673
TENNESSEE VALLEY AUTHORITY	11,500	-	-	-	-	11,400	100	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	735	63	-	25	-	100	-	-	547
VETERANS ADMINISTRATION	3,898	-	-	-	-	-	-	-	3,898

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-63. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	2,763,982	628,066	283,554	110,942	125,089	610,994	163,518	184,715	657,104
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	38,836	-	-	3,694	3,685	207	3,177	-	28,073
FOREST SERVICE	9,756	-	-	1,219	1,829	-	2,352	-	4,356
SCIENCE & EDUCATION ADMINISTRATION	29,080	-	-	2,475	1,856	207	825	-	23,717
AGRICULTURAL RESEARCH	24,548	-	-	2,475	1,856	207	825	-	19,185
AGRICULTURAL COOPERATIVE RESEARCH	4,532	-	-	-	-	-	-	-	4,532
DEPARTMENT OF COMMERCE, TOTAL	42,305	-	-	1,217	11,571	13,288	3,484	7,967	4,778
MARITIME ADMINISTRATION	7,710	-	-	-	7,710	-	-	-	-
NATIONAL BUREAU OF STANDARDS	24,478	-	-	1,217	2,993	4,225	3,484	7,848	4,711
NAT'L OCEANIC & ATMOSPHERIC ADMIN	2,217	-	-	-	868	1,163	-	119	67
NAT'L TELECOMM & INFORMATION ADMIN	7,900	-	-	-	-	7,900	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,339,125	244,953	67,158	25,004	41,031	563,904	107,610	89,778	199,688
DEPARTMENT OF THE ARMY	259,047	32,561	1,236	18,025	25,549	107,841	43,390	12,171	18,275
DEPARTMENT OF THE NAVY	307,533	40,517	-	2,817	3,933	85,146	37,971	24,940	112,209
DEPARTMENT OF THE AIR FORCE	338,589	96,400	50,766	3,210	2,830	149,774	10,100	16,100	9,409
DEFENSE AGENCIES	433,956	75,475	15,156	952	8,719	221,143	16,149	36,567	59,795
DEPARTMENT OF EDUCATION, TOTAL	85	-	-	-	-	-	-	-	85
DEPARTMENT OF ENERGY	181,606	-	-	19,248	970	7,525	22,649	40,229	90,985
DEPT OF HLTH & HUMAN SERVICES, TOTAL	19,106	-	-	-	-	-	-	-	19,106
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	49	-	-	-	-	-	-	-	49
NATIONAL INSTITUTES OF HEALTH	19,057	-	-	-	-	-	-	-	19,057
DEPT OF HOUSING & URBAN DEVELOPMENT	1,222	-	-	-	-	-	-	-	1,222
DEPARTMENT OF THE INTERIOR, TOTAL	64,830	-	-	6,830	12,615	510	4,661	39,400	814
BUREAU OF MINES	52,650	-	-	6,800	3,000	-	3,450	39,400	-
GEOLOGICAL SURVEY	8,257	-	-	-	6,686	360	1,211	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	520	-	-	-	251	-	-	-	269
WATER AND POWER RESOURCES SERVICE	3,403	-	-	30	2,678	150	-	-	545
DEPARTMENT OF JUSTICE, TOTAL	728	-	-	-	-	728	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	500	-	-	-	-	500	-	-	-
IMMIGRATION & NATURALIZATION SVC	228	-	-	-	-	228	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	57,792	3,350	630	1,094	21,953	2,921	18,202	2,084	7,558
COAST GUARD	10,000	2,000	-	-	-	500	-	-	7,500
FEDERAL AVIATION ADMINISTRATION	9,000	1,350	630	-	5,850	1,170	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,015	-	-	-	3,516	-	98	343	58
FEDERAL RAILROAD ADMINISTRATION	6,965	-	-	-	2,577	557	2,090	1,741	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	15,042	-	-	-	-	-	15,042	-	-
OFFICE OF THE SECRETARY	400	-	-	400	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	2,920	-	-	694	560	694	972	-	-
URBAN MASS TRANSPORTATION ADMIN	9,450	-	-	-	9,450	-	-	-	-
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	790	-	-	-	-	-	-	-	790
ENVIRONMENTAL PROTECTION AGENCY	72,077	-	-	52,248	19,829	-	-	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,094	-	-	-	-	1,084	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	5,537	-	-	296	1,720	224	1,554	-	1,743
GENERAL SERVICES ADMINISTRATION	134	-	-	100	34	-	-	-	-
INTERNATIONAL COMMUNICATION AGENCY	138	-	-	-	-	138	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	12,560	-	-	-	1,710	1,000	-	-	9,850
AGENCY FOR INTERNAT'L DEVELOPMENT	12,560	-	-	-	1,710	1,000	-	-	9,850
NATIONAL AERONAUTICS & SPACE ADMIN	660,612	379,603	215,621	45	-	2,500	1,750	1,465	59,628
NATIONAL SCIENCE FOUNDATION	20,849	-	-	1,142	9,972	3,030	331	3,792	2,582
NUCLEAR REGULATORY COMMISSION	224,540	-	-	-	-	-	-	-	224,540
TENNESSEE VALLEY AUTHORITY	13,900	-	-	-	-	13,800	100	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	1,326	160	145	24	-	135	-	-	862
VETERANS ADMINISTRATION	4,800	-	-	-	-	-	-	-	4,800

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE C-54. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE-MATICS	COMPUTER SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES NEC	TOTAL	ANTHRO-POLOGY	ECONOM-ICS	POLITI-CAL SCIENCE	SOCI-OLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	124,015	23,933	81,976	18,206	376,631	2,945	152,761	4,767	46,058	170,100
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	1,994	1,994	-	-	61,396	15	56,696	72	3,578	1,035
AGRICULTURAL COOPERATIVE SVC	-	-	-	-	1,634	-	1,634	-	-	-
ECONOMICS & STATISTICS SERVICE	245	245	-	-	24,214	-	23,481	-	483	245
FOREST SERVICE	795	795	-	-	8,245	-	6,365	72	1,808	-
SCIENCE & EDUCATION ADMINISTRATION	954	954	-	-	27,303	15	25,216	-	1,292	790
AGRICULTURAL RESEARCH	954	954	-	-	3,074	15	2,269	-	-	790
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	24,229	-	22,947	-	1,292	-
DEPARTMENT OF COMMERCE, TOTAL	7,069	4,391	1,507	1,171	6,435	-	6,186	89	160	-
BUREAU OF THE CENSUS	900	752	148	-	353	-	193	-	160	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	2,200	-	2,200	-	-	-
MARITIME ADMINISTRATION	844	-	844	-	548	-	548	-	-	-
NATIONAL BUREAU OF STANDARDS	4,544	3,366	107	1,171	1,776	-	1,776	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	681	273	408	-	355	-	266	89	-	-
NAT'L TELECOMM & INFORMATION ADMIN	-	-	-	-	1,203	-	1,203	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	93,483	7,266	69,336	13,881	696	-	101	71	514	-
DEPARTMENT OF THE ARMY	6,534	2,300	4,214	20	615	-	101	-	514	-
DEPARTMENT OF THE NAVY	39,149	350	31,956	6,842	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	20,503	3,100	17,403	-	-	-	-	-	-	-
DEFENSE AGENCIES	24,298	1,516	15,763	7,019	71	-	-	71	-	-
DEPARTMENT OF EDUCATION, TOTAL	-	-	-	-	34,451	-	-	-	-	34,451
DEPARTMENT OF ENERGY	1,448	-	-	1,448	2,269	-	-	-	-	2,269
DEPT OF HLTH & HUMAN SERVICES, TOTAL	4,115	3,760	85	270	147,201	568	17,224	535	26,381	102,493
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	355	-	85	270	19,737	568	50	298	16,081	2,740
HEALTH CARE FINANCING ADMIN	-	-	-	-	45,727	-	-	-	-	45,727
NATIONAL INSTITUTES OF HEALTH	3,760	3,760	-	-	5,072	-	-	-	-	5,072
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	14,145	-	1,773	237	3,700	8,435
OFF OF HUMAN DEVELOPMENT SERVICES	-	-	-	-	19,131	-	-	-	-	19,131
OFFICE OF THE SECRETARY	-	-	-	-	22,001	-	15,401	-	6,600	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	21,397	-	-	-	-	21,397
DEPT OF HOUSING & URBAN DEVELOPMENT	-	-	-	-	17,679	-	12,979	-	-	4,700
DEPARTMENT OF THE INTERIOR, TOTAL	5,265	4,346	1,821	98	4,391	2,300	548	600	551	392
BUREAU OF LAND MANAGEMENT	-	-	-	-	75	-	-	-	75	-
BUREAU OF MINES	4,200	4,200	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	1,882	146	1,736	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	2,384	2,300	-	-	84	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	85	-	85	-	212	-	-	-	-	212
OFFICE OF WATER RSCH & TECHNOLOGY	98	-	-	98	1,565	-	523	600	262	180
WATER AND POWER RESOURCES SERVICE	-	-	-	-	155	-	25	-	130	-
DEPARTMENT OF JUSTICE, TOTAL	100	-	100	-	16,207	-	400	1,100	4,703	10,004
DRUG ENFORCEMENT ADMINISTRATION	100	-	100	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	-	-	-	-	857	-	300	-	-	557
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	1,320	-	-	-	-	1,320
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	14,030	-	100	1,100	4,703	8,127
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	32,364	-	32,300	-	64	-
BUREAU OF LABOR STATISTICS	-	-	-	-	925	-	925	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	4,900	-	4,900	-	-	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	16,056	-	15,992	-	64	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	2,819	-	2,819	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	6,300	-	6,300	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,364	-	1,364	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	1,544	-	108	-	-	1,436
DEPARTMENTAL FUNDS	-	-	-	-	1,544	-	108	-	-	1,436

CONTINUED ON NEXT PAGE

TABLE C-64. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	1,344	-	1,344	-	17,846	-	10,869	-	6,660	317
COAST GUARD	-	-	-	-	100	-	100	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	90	-	90	-	497	-	180	-	-	317
FEDERAL RAILROAD ADMINISTRATION	31	-	31	-	11	-	11	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	-	-	-	-	16,282	-	9,622	-	6,660	-
OFFICE OF THE SECRETARY	-	-	-	-	320	-	320	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	1,223	-	1,223	-	636	-	636	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	1,401	-	608	793	324	-	-	-	-	324
INTERNAL REVENUE SERVICE	1,401	-	608	793	324	-	-	-	-	324
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	2,219	-	1,109	1,110	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	600	-	600	-	-	-
COMMUNITY SERVICES ADMINISTRATION	-	-	-	-	1,250	-	-	-	1,250	-
ENVIRONMENTAL PROTECTION AGENCY	1,038	-	1,038	-	1,739	-	1,239	-	500	-
FEDERAL COMMUNICATIONS COMMISSION	82	-	-	82	1,741	-	1,416	-	-	325
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	371	326	45	-	960	-	233	438	287	2
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	1,227	-	1,227	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	1,526	-	1,526	-	-	-
GENERAL SERVICES ADMINISTRATION	72	-	72	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	587	-	587	-	8,615	-	35	-	580	8,000
AGENCY FOR INTERNAT'L DEVELOPMENT ..	587	-	587	-	8,615	-	35	-	580	8,000
INTERSTATE COMMERCE COMMISSION	50	-	50	-	93	-	93	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,908	1,179	635	94	30	-	-	-	-	30
NATIONAL SCIENCE FOUNDATION	4,909	206	4,634	69	10,647	62	5,216	325	830	4,214
OFFICE OF PERSONNEL MANAGEMENT	-	-	-	-	300	-	-	300	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	300	-	300	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	879	465	114	300	513	-	288	127	-	98
US INTERNATIONAL TRADE COMMISSION	-	-	-	-	2,068	-	2,068	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-55. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	145,485	25,018	92,706	27,761	372,843	2,871	160,867	5,855	44,556	158,694
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	2,085	2,085	-	-	69,089	16	63,903	80	3,946	1,144
AGRICULTURAL COOPERATIVE SVC	-	-	-	-	2,469	-	2,469	-	-	-
ECONOMICS & STATISTICS SERVICE	280	280	-	-	27,707	-	26,868	-	559	280
FOREST SERVICE	872	872	-	-	9,041	-	6,978	80	1,983	-
SCIENCE & EDUCATION ADMINISTRATION	933	933	-	-	29,872	16	27,588	-	1,404	864
AGRICULTURAL RESEARCH	933	933	-	-	3,357	16	2,477	-	-	864
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	26,515	-	25,111	-	1,404	-
DEPARTMENT OF COMMERCE, TOTAL	7,353	4,712	1,351	1,290	7,012	-	5,345	1,059	191	417
BUREAU OF THE CENSUS	1,075	898	177	-	422	-	231	-	191	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	1,600	-	1,600	-	-	-
MARITIME ADMINISTRATION	600	-	600	-	500	-	500	-	-	-
NATIONAL BUREAU OF STANDARDS	4,968	3,530	148	1,290	753	-	753	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	710	284	426	-	2,713	-	1,237	1,059	-	417
NAT'L TELECOMM & INFORMATION ADMIN	-	-	-	-	1,024	-	1,024	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	111,535	7,348	80,019	24,168	844	-	140	102	557	45
DEPARTMENT OF THE ARMY	7,058	1,424	5,619	15	742	-	140	-	557	45
DEPARTMENT OF THE NAVY	46,976	-	40,832	6,144	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	24,500	3,000	19,000	2,500	-	-	-	-	-	-
DEFENSE AGENCIES	33,001	2,924	14,568	15,509	102	-	-	102	-	-
DEPARTMENT OF EDUCATION, TOTAL	-	-	-	-	34,924	-	-	-	-	34,924
DEPARTMENT OF ENERGY	1,668	-	-	1,668	2,602	-	-	-	-	2,602
DEPT OF HLTH & HUMAN SERVICES, TOTAL	4,248	3,923	100	225	143,469	545	16,024	579	25,434	100,887
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	325	-	100	225	19,259	545	36	288	15,196	3,194
HEALTH CARE FINANCING ADMIN	-	-	-	-	46,000	-	-	-	-	46,000
NATIONAL INSTITUTES OF HEALTH	3,923	3,923	-	-	5,230	-	-	-	-	5,230
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	16,529	-	2,058	291	4,268	9,912
OFF OF HUMAN DEVELOPMENT SERVICES	-	-	-	-	16,303	-	-	-	-	16,303
OFFICE OF THE SECRETARY	-	-	-	-	19,900	-	13,930	-	5,970	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	20,248	-	-	-	-	20,248
DEPT OF HOUSING & URBAN DEVELOPMENT	-	-	-	-	17,638	-	15,071	-	-	2,567
DEPARTMENT OF THE INTERIOR, TOTAL	6,440	4,290	2,112	38	3,827	2,300	237	229	403	658
BUREAU OF LAND MANAGEMENT	-	-	-	-	75	-	-	-	75	-
BUREAU OF MINES	4,100	4,100	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	2,302	190	2,112	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	2,400	2,300	-	-	100	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	590	-	-	-	-	590
OFFICE OF WATER RSCH & TECHNOLOGY	38	-	-	38	592	-	197	229	98	68
WATER AND POWER RESOURCES SERVICE	-	-	-	-	170	-	40	-	130	-
DEPARTMENT OF JUSTICE, TOTAL	50	-	50	-	12,563	-	683	1,000	4,326	6,554
DRUG ENFORCEMENT ADMINISTRATION	50	-	50	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	-	-	-	-	1,057	-	400	-	-	657
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	1,500	-	-	-	-	1,500
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	10,006	-	283	1,000	4,326	4,397
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	32,956	-	32,956	-	-	-
BUREAU OF LABOR STATISTICS	-	-	-	-	838	-	838	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	5,900	-	5,900	-	-	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	14,151	-	14,151	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	3,055	-	3,055	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	8,000	-	8,000	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,012	-	1,012	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	1,479	-	242	-	-	1,237
DEPARTMENTAL FUNDS	-	-	-	-	1,479	-	242	-	-	1,237

CONTINUED ON NEXT PAGE

TABLE C-65. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	909	-	909	-	18,910	-	11,223	-	7,393	294
COAST GUARD	-	-	-	-	100	-	100	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	92	-	92	-	294	-	-	-	-	294
FEDERAL RAILROAD ADMINISTRATION	31	-	31	-	11	-	11	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	-	-	-	-	16,178	-	9,561	-	6,617	-
OFFICE OF THE SECRETARY	-	-	-	-	340	-	340	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	786	-	786	-	1,987	-	1,211	-	776	-
DEPARTMENT OF THE TREASURY, TOTAL	846	-	846	-	308	-	-	-	-	308
INTERNAL REVENUE SERVICE	846	-	846	-	308	-	-	-	-	308
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	1,827	-	913	914	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	280	-	280	-	-	-
COMMUNITY SERVICES ADMINISTRATION	-	-	-	-	1,000	-	-	-	1,000	-
ENVIRONMENTAL PROTECTION AGENCY	300	300	-	-	1,323	-	1,323	-	-	-
FEDERAL COMMUNICATIONS COMMISSION	7	-	-	7	1,058	-	1,032	-	-	25
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	553	486	67	-	1,427	-	346	652	427	2
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	1,150	-	1,150	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	2,115	-	2,115	-	-	-
GENERAL SERVICES ADMINISTRATION	250	-	250	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	700	-	700	-	3,000	-	-	-	-	3,000
AGENCY FOR INTERNAT'L DEVELOPMENT ..	700	-	700	-	3,000	-	-	-	-	3,000
INTERSTATE COMMERCE COMMISSION	50	-	50	-	125	-	125	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	2,515	1,640	775	100	50	-	-	-	-	50
NATIONAL SCIENCE FOUNDATION	5,801	234	5,452	115	9,903	10	4,775	260	879	3,979
OFFICE OF PERSONNEL MANAGEMENT	-	-	-	-	900	-	-	900	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	175	-	25	150	80	-	-	80	-	-
US INTERNATIONAL TRADE COMMISSION	-	-	-	-	2,994	-	2,984	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-66. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1992 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	159,050	25,566	93,519	39,965	360,173	3,575	155,526	3,589	40,178	157,305
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	2,293	2,293	-	-	75,615	19	69,899	37	4,340	1,271
AGRICULTURAL COOPERATIVE SVC	-	-	-	-	2,514	-	2,514	-	-	-
ECONOMICS & STATISTICS SERVICE	303	303	-	-	30,067	-	29,155	-	607	305
FOREST SERVICE	958	958	-	-	9,928	-	7,664	37	2,177	-
SCIENCE & EDUCATION ADMINISTRATION	1,032	1,032	-	-	33,106	19	30,566	-	1,556	966
AGRICULTURAL RESEARCH	1,032	1,032	-	-	3,714	19	2,730	-	-	965
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	29,392	-	27,836	-	1,555	-
DEPARTMENT OF COMMERCE, TOTAL	8,489	4,933	2,341	1,315	3,034	-	2,754	89	191	-
BUREAU OF THE CENSUS	1,173	996	177	-	421	-	230	-	191	-
MARITIME ADMINISTRATION	500	-	500	-	200	-	200	-	-	-
NATIONAL BUREAU OF STANDARDS	5,143	3,550	1,278	1,315	775	-	775	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	773	387	386	-	178	-	89	89	-	-
NAT'L TELECOMM & INFORMATION ADMIN	-	-	-	-	1,460	-	1,460	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	123,369	6,063	81,323	35,983	916	-	154	-	712	50
DEPARTMENT OF THE ARMY	6,774	1,622	5,062	90	916	-	154	-	712	50
DEPARTMENT OF THE NAVY	47,932	-	40,261	7,671	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	25,035	3,500	18,535	3,000	-	-	-	-	-	-
DEFENSE AGENCIES	43,628	941	17,465	25,222	-	-	-	-	-	-
DEPARTMENT OF EDUCATION, TOTAL	-	-	-	-	25,377	-	-	-	-	25,377
DEPARTMENT OF ENERGY	2,029	-	-	2,029	3,144	-	-	-	-	3,144
DEPT OF HLTH & HUMAN SERVICES, TOTAL	4,526	4,193	100	233	148,160	547	12,203	383	22,842	112,180
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	333	-	100	233	19,816	547	38	290	15,586	3,355
HEALTH CARE FINANCING ADMIN	-	-	-	-	46,000	-	-	-	-	46,000
NATIONAL INSTITUTES OF HEALTH	4,193	4,193	-	-	5,590	-	-	-	-	5,590
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	10,127	-	1,175	93	2,546	6,309
OFF OF HUMAN DEVELOPMENT SERVICES	-	-	-	-	22,607	-	-	-	-	22,607
OFFICE OF THE SECRETARY	-	-	-	-	15,700	-	10,990	-	4,710	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	28,320	-	-	-	-	28,320
DEPT OF HOUSING & URBAN DEVELOPMENT	-	-	-	-	19,190	-	16,325	-	-	2,865
DEPARTMENT OF THE INTERIOR, TOTAL	5,877	3,351	2,526	-	3,210	3,000	15	-	195	-
BUREAU OF MINES	3,150	3,150	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	2,727	201	2,526	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	3,150	3,000	-	-	150	-
WATER AND POWER RESOURCES SERVICE	-	-	-	-	60	-	15	-	45	-
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	10,082	-	600	1,000	3,000	5,482
FEDERAL PRISON SYSTEM	-	-	-	-	1,057	-	400	-	-	657
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	1,000	-	-	-	-	1,000
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	8,025	-	200	1,000	3,000	3,825
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	27,160	-	27,160	-	-	-
BUREAU OF LABOR STATISTICS	-	-	-	-	879	-	879	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	4,900	-	4,900	-	-	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	8,965	-	8,965	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	3,055	-	3,055	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	8,300	-	8,300	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,061	-	1,061	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	1,559	-	272	-	-	1,287
DEPARTMENTAL FUNDS	-	-	-	-	1,559	-	272	-	-	1,287

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TABLE C-66. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	1,105	-	1,105	-	18,964	-	11,255	9	7,406	294
COAST GUARD	-	-	-	-	100	-	100	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	92	-	92	-	294	-	-	-	-	294
FEDERAL RAILROAD ADMINISTRATION	26	-	26	-	9	-	-	9	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	-	-	-	-	15,728	-	9,295	-	6,433	-
OFFICE OF THE SECRETARY	-	-	-	-	340	-	340	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	987	-	987	-	2,493	-	1,520	-	973	-
DEPARTMENT OF THE TREASURY, TOTAL	1,800	-	1,800	-	327	-	-	-	-	327
INTERNAL REVENUE SERVICE	1,300	-	1,800	-	327	-	-	-	-	327
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	2,028	-	1,014	1,014	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	300	-	300	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	1,210	-	1,210	-	-	-
FEDERAL COMMUNICATIONS COMMISSION	7	-	7	-	830	-	804	-	-	26
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	707	622	85	-	1,829	-	444	835	547	3
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	1,321	-	1,321	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	2,222	-	2,222	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	900	-	900	-	2,500	-	-	-	-	2,500
AGENCY FOR INTERNAT'L DEVELOPMENT ..	900	-	900	-	2,500	-	-	-	-	2,500
INTERSTATE COMMERCE COMMISSION	50	-	50	-	100	-	100	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	4,762	3,812	825	125	75	-	-	-	-	75
NATIONAL SCIENCE FOUNDATION	2,924	287	2,437	200	6,959	10	3,480	100	945	2,424
US ARMS CONTROL & DISARMAMENT AGENCY .	212	112	20	80	135	-	68	67	-	-
US INTERNATIONAL TRADE COMMISSION	-	-	-	-	3,926	-	3,926	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-67. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	20,083,020	4,263,130	12,344,373	1,097,031	577,861	740,418	455,422	370,117	114,610	120,058
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	30,151	27,276	367	-	1,963	-	13	-	20	512
AGRICULTURAL MARKETING SERVICE	277	277	-	-	-	-	-	-	-	-
FOREST SERVICE	5,476	5,476	-	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	371	53	-	-	-	-	-	-	-	318
OFFICE OF TRANSPORTATION	767	767	-	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	23,260	20,703	367	-	1,963	-	13	-	20	194
AGRICULTURAL RESEARCH	23,260	20,703	367	-	1,963	-	13	-	20	194
DEPARTMENT OF COMMERCE, TOTAL	88,116	42,764	14,299	-	7,089	108	10,967	-	12,859	30
BUREAU OF THE CENSUS	1,240	1,240	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	29,800	1,150	2,150	-	3,300	-	10,600	-	12,600	-
MARITIME ADMINISTRATION	7,300	200	6,536	-	308	-	-	-	256	-
NATIONAL BUREAU OF STANDARDS	17,274	14,291	2,730	-	253	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	30,940	24,351	2,883	-	3,228	108	367	-	3	-
NAT'L TELECOMM & INFORMATION ADMIN	1,069	1,069	-	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	33	3	-	-	-	-	-	-	-	30
PATENT AND TRADEMARK OFFICE	460	460	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	11,719,243	2,946,097	8,052,834	88,035	182,624	93,814	67,663	242,304	106	45,765
DEPARTMENT OF THE ARMY	2,500,732	817,295	1,637,118	1,534	10,702	18,896	7,432	5,922	106	1,727
DEPARTMENT OF THE NAVY	4,095,032	1,037,921	2,785,291	86,501	93,784	14,267	31,456	4,660	-	41,152
DEPARTMENT OF THE AIR FORCE	4,673,729	897,967	3,401,820	-	74,792	60,651	24,931	210,681	-	2,887
DEFENSE AGENCIES	411,870	159,943	227,208	-	3,346	-	3,844	17,529	-	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	37,880	32,971	1,397	-	-	-	-	3,512	-	-
DEPARTMENT OF EDUCATION, TOTAL	51,797	1,639	4,924	-	22,437	-	21,062	-	1,714	21
DEPARTMENT OF ENERGY	3,476,362	392,827	1,312,148	997,780	60,880	533,325	21,795	126,098	21,321	10,188
DEPT OF HLTH & HUMAN SERVICES, TOTAL	447,444	71,205	50,422	11,216	189,424	1,046	102,406	89	15,868	5,768
HEALTH SERVICES ADMINISTRATION	18,703	2,400	-	-	3,717	-	9,659	-	2,822	105
NATIONAL INSTITUTES OF HEALTH	394,360	65,732	42,994	11,216	176,903	1,046	81,346	89	9,381	5,653
OFFICE OF ASST'T SECY FOR HEALTH	4,243	1,646	553	-	1,722	-	312	-	-	10
OFF OF HUMAN DEVELOPMENT SERVICES	30,138	1,427	6,875	-	7,082	-	11,089	-	3,665	-
DEPT OF HOUSING & URBAN DEVELOPMENT	36,424	868	16,607	-	4,323	-	13,675	-	951	-
DEPARTMENT OF THE INTERIOR, TOTAL	56,812	22,626	26,409	-	4,362	200	2,360	207	648	-
BUREAU OF LAND MANAGEMENT	331	132	-	-	199	-	-	-	-	-
BUREAU OF MINES	30,573	8,328	15,385	-	3,675	200	2,360	207	418	-
GEOLOGICAL SURVEY	500	10	490	-	-	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	10,858	600	10,258	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	13,350	12,756	76	-	288	-	-	-	230	-
WATER AND POWER RESOURCES SERVICE	1,200	800	200	-	200	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	12,741	1,760	4,271	-	640	-	4,209	-	1,861	-
DRUG ENFORCEMENT ADMINISTRATION	1,900	500	1,400	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	1,442	215	1,227	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	1,250	50	-	-	-	-	900	-	300	-
IMMIGRATION & NATURALIZATION SVC	151	56	95	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	480	10	470	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	7,518	929	1,079	-	640	-	3,309	-	1,561	-
DEPARTMENT OF LABOR, TOTAL	101,621	2,171	9,430	-	8,425	-	76,255	-	5,340	-
EMPLOYMENT & TRAINING ADMIN	101,621	2,171	9,430	-	8,425	-	76,255	-	5,340	-
DEPARTMENT OF STATE, TOTAL	250	70	180	-	-	-	-	-	-	-
DEPARTMENTAL FUNDS	250	70	180	-	-	-	-	-	-	-

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TABLE C-67. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF TRANSPORTATION, TOTAL ..	278,785	84,820	122,567	-	19,966	3,710	12,389	-	35,333	-
COAST GUARD	9,900	3,200	6,200	-	500	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	94,900	22,776	59,786	-	244	3,300	8,794	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	46,500	10,674	3,527	-	8,168	-	-	-	24,131	-
FEDERAL RAILROAD ADMINISTRATION	38,300	9,575	24,512	-	766	-	1,149	-	2,298	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	24,939	1,105	16,413	-	1,865	-	1,847	-	3,709	-
OFFICE OF THE SECRETARY	10,204	5,578	4,526	-	100	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	8,549	6,044	317	-	2,188	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	45,493	25,868	7,286	-	6,135	410	599	-	5,195	-
DEPARTMENT OF THE TREASURY, TOTAL	6,346	948	3,652	-	138	22	-	936	-	650
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	1,204	82	164	-	-	22	-	936	-	-
BUREAU OF ENGRAVING AND PRINTING ...	1,000	700	300	-	-	-	-	-	-	-
CUSTOMS SERVICE	3,723	100	2,835	-	138	-	-	-	-	650
INTERNAL REVENUE SERVICE	59	56	3	-	-	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	360	10	350	-	-	-	-	-	-	-
OTHER AGENCIES										
APPALACHIAN REGIONAL COMMISSION	200	10	90	-	-	-	-	-	100	-
COMMUNITY SERVICES ADMINISTRATION	29,099	1,500	-	-	-	-	27,599	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	1,900	1,178	684	-	-	-	38	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	99,900	38,790	24,320	-	1,195	-	19,355	-	16,240	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	2,511	1,487	88	-	3	-	900	-	33	-
GENERAL SERVICES ADMINISTRATION	54	1	53	-	-	-	-	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	5	5	-	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	69,658	230	1,967	-	42,561	-	5,728	240	-	18,932
AGENCY FOR INTERNAT'L DEVELOPMENT ..	69,658	230	1,967	-	42,561	-	5,728	240	-	18,932
LIBRARY OF CONGRESS	6,300	5,800	500	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	3,474,410	551,637	2,697,810	-	25,069	108,193	52,551	243	716	38,191
NATIONAL SCIENCE FOUNDATION	8,105	64	-	-	4,884	-	3,157	-	-	-
OFFICE OF PERSONNEL MANAGEMENT	4,187	1,487	-	-	700	-	500	-	1,500	-
TENNESSEE VALLEY AUTHORITY	64,300	51,500	-	-	-	-	12,800	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	799	48	751	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	15,500	14,322	-	-	1,178	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-68. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	23,001,175	5,136,081	14,285,467	1,104,359	574,784	793,435	416,772	454,262	111,392	124,623
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	31,601	28,377	553	-	2,078	-	20	-	31	542
AGRICULTURAL MARKETING SERVICE	277	277	-	-	-	-	-	-	-	-
FOREST SERVICE	6,000	6,000	-	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	468	68	-	-	-	-	-	-	-	400
OFFICE OF TRANSPORTATION	844	844	-	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	24,012	21,188	553	-	2,078	-	20	-	31	142
AGRICULTURAL RESEARCH	24,012	21,188	553	-	2,078	-	20	-	31	142
DEPARTMENT OF COMMERCE, TOTAL	79,426	43,604	13,030	-	4,336	-	7,156	-	11,300	-
BUREAU OF THE CENSUS	1,341	1,341	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	22,400	1,000	1,500	-	2,200	-	6,800	-	10,900	-
MARITIME ADMINISTRATION	5,900	100	5,300	-	100	-	-	-	400	-
NATIONAL BUREAU OF STANDARDS	17,849	14,769	2,800	-	280	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	29,814	24,272	3,430	-	1,756	-	356	-	-	-
NAT'L TELECOMM & INFORMATION ADMIN	1,008	1,008	-	-	-	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	1,114	1,114	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	14,280,087	3,693,367	9,771,943	100,501	207,334	92,586	78,401	295,181	110	40,564
DEPARTMENT OF THE ARMY	2,777,137	963,213	1,763,223	3,703	6,453	21,548	10,975	7,109	110	903
DEPARTMENT OF THE NAVY	4,360,280	1,182,531	2,914,906	96,798	93,095	3,550	28,692	4,800	-	35,908
DEPARTMENT OF THE AIR FORCE	6,587,757	1,320,176	4,795,228	-	105,404	67,488	34,915	260,593	-	3,753
DEFENSE AGENCIES	517,944	194,880	297,086	-	2,382	-	3,819	19,777	-	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	36,969	32,567	1,500	-	-	-	-	2,902	-	-
DEPARTMENT OF EDUCATION, TOTAL	49,935	1,445	4,500	-	21,428	-	20,812	-	1,750	-
DEPARTMENT OF ENERGY	3,519,284	449,044	1,204,201	992,724	55,585	605,591	22,329	158,106	18,184	13,520
DEPT OF HLTH & HUMAN SERVICES, TOTAL	434,299	71,406	49,784	11,134	186,645	1,182	94,716	79	13,460	5,893
HEALTH SERVICES ADMINISTRATION	6,891	3,065	-	-	612	-	2,563	-	651	-
NATIONAL INSTITUTES OF HEALTH	394,055	64,959	43,146	11,134	176,930	1,182	81,275	79	9,457	5,893
OFFICE OF ASST'T SECY FOR HEALTH	4,821	1,870	225	-	2,384	-	342	-	-	-
OFF OF HUMAN DEVELOPMENT SERVICES	28,532	1,512	6,413	-	6,719	-	10,536	-	3,352	-
DEPT OF HOUSING & URBAN DEVELOPMENT	32,263	768	14,709	-	3,830	-	12,115	-	841	-
DEPARTMENT OF THE INTERIOR, TOTAL	58,582	23,858	27,077	-	4,447	200	2,400	200	400	-
BUREAU OF LAND MANAGEMENT	397	150	-	-	247	-	-	-	-	-
BUREAU OF MINES	31,185	9,000	15,285	-	3,700	200	2,400	200	400	-
OFFICE OF WATER RSCH & TECHNOLOGY	12,085	593	11,492	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	13,815	13,415	100	-	300	-	-	-	-	-
WATER AND POWER RESOURCES SERVICE	1,100	700	200	-	200	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	10,785	1,348	3,600	-	766	-	3,561	-	1,510	-
DRUG ENFORCEMENT ADMINISTRATION	1,700	400	1,300	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	297	275	22	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	2,050	50	-	-	-	-	900	-	1,100	-
IMMIGRATION & NATURALIZATION SVC	516	56	460	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	6,222	567	1,818	-	766	-	2,661	-	410	-
DEPARTMENT OF LABOR, TOTAL	71,124	1,723	2,743	-	6,672	-	57,343	-	2,643	-
EMPLOYMENT & TRAINING ADMIN	71,124	1,723	2,743	-	6,672	-	57,343	-	2,643	-
DEPARTMENT OF STATE, TOTAL	160	45	115	-	-	-	-	-	-	-
DEPARTMENTAL FUNDS	160	45	115	-	-	-	-	-	-	-

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TABLE C-68. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF TRANSPORTATION, TOTAL ..	307,785	93,186	136,486	-	21,392	4,346	14,285	-	38,090	-
COAST GUARD	9,200	5,000	3,700	-	500	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	110,600	26,544	69,677	-	284	3,846	10,249	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	51,100	11,591	4,132	-	9,382	-	-	-	25,995	-
FEDERAL RAILROAD ADMINISTRATION	41,100	11,097	25,893	-	822	-	1,233	-	2,055	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	29,078	1,291	19,136	-	2,174	-	2,153	-	4,324	-
OFFICE OF THE SECRETARY	9,985	5,037	4,848	-	100	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	9,256	5,626	1,700	-	1,930	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	47,466	27,000	7,400	-	6,200	500	650	-	5,716	-
DEPARTMENT OF THE TREASURY, TOTAL	6,575	1,920	4,313	-	46	-	-	296	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	200	54	-	-	-	-	-	146	-	-
BUREAU OF ENGRAVING AND PRINTING ...	2,638	1,691	947	-	-	-	-	-	-	-
CUSTOMS SERVICE	3,500	113	3,191	-	46	-	-	150	-	-
INTERNAL REVENUE SERVICE	133	58	75	-	-	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	104	4	100	-	-	-	-	-	-	-
OTHER AGENCIES										
APPALACHIAN REGIONAL COMMISSION	95	75	20	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	13,600	1,500	-	-	-	-	12,100	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	1,500	930	540	-	30	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	103,200	40,733	22,904	-	3,319	-	15,713	-	20,531	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	2,478	1,467	87	-	2	-	890	-	32	-
INTERNATIONAL COMMUNICATION AGENCY ...	41	33	8	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	40,728	50	862	-	21,979	-	1,547	160	-	16,130
AGENCY FOR INTERNAT'L DEVELOPMENT ..	40,728	50	862	-	21,979	-	1,547	160	-	16,130
LIBRARY OF CONGRESS	5,600	5,300	300	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	3,353,122	599,437	3,027,078	-	30,000	89,530	58,288	240	675	47,874
NATIONAL SCIENCE FOUNDATION	4,000	60	191	-	2,758	-	296	-	695	-
OFFICE OF PERSONNEL MANAGEMENT	4,455	2,155	-	-	860	-	300	-	1,140	-
TENNESSEE VALLEY AUTHORITY	73,300	58,800	-	-	-	-	14,500	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	450	27	423	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	16,700	15,423	-	-	1,277	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-69. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	27,068,176	5,800,904	17,723,219	1,132,505	597,529	787,441	381,778	382,119	79,938	182,743
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	34,308	30,666	590	-	2,521	-	21	-	32	478
AGRICULTURAL MARKETING SERVICE	277	277	-	-	-	-	-	-	-	-
FOREST SERVICE	6,700	6,700	-	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	466	63	-	-	-	-	-	-	-	403
OFFICE OF TRANSPORTATION	1,093	1,093	-	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	25,772	22,533	590	-	2,521	-	21	-	32	75
AGRICULTURAL RESEARCH	25,772	22,533	590	-	2,521	-	21	-	32	75
DEPARTMENT OF COMMERCE, TOTAL	59,304	44,568	11,166	-	2,635	400	235	-	300	-
BUREAU OF THE CENSUS	1,453	1,453	-	-	-	-	-	-	-	-
MARITIME ADMINISTRATION	5,500	100	5,000	-	100	-	-	-	300	-
NATIONAL BUREAU OF STANDARDS	17,977	15,297	2,400	-	280	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	32,715	26,059	3,766	-	2,255	400	235	-	-	-
NAT'L TELECOMM & INFORMATION ADMIN	1,040	1,040	-	-	-	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	619	619	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	18,375,024	4,544,760	12,853,501	133,320	255,579	117,039	85,345	353,170	113	32,197
DEPARTMENT OF THE ARMY	3,380,752	1,152,953	2,179,164	3,320	4,335	24,189	6,710	8,827	113	1,141
DEPARTMENT OF THE NAVY	5,249,186	1,233,106	3,708,201	130,000	106,166	14,199	27,055	4,728	-	25,731
DEPARTMENT OF THE AIR FORCE	8,875,142	1,774,915	6,515,627	-	142,002	78,651	47,038	311,584	-	5,325
DEFENSE AGENCIES	820,913	340,327	448,509	-	3,076	-	4,542	24,459	-	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	49,031	43,459	2,000	-	-	-	-	3,572	-	-
DEPARTMENT OF EDUCATION, TOTAL	42,787	400	3,750	-	19,080	-	18,057	-	1,500	-
DEPARTMENT OF ENERGY	3,069,417	273,427	1,166,062	986,515	37,495	558,462	12,852	25,861	2.900	5,333
DEPT OF HLTH & HUMAN SERVICES, TOTAL	469,863	72,234	49,141	12,670	187,952	1,520	127,707	83	12,150	6,436
HEALTH SERVICES ADMINISTRATION	800	800	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	416,771	68,767	45,428	12,670	185,694	1,520	85,813	83	10,390	6,406
OFFICE OF ASST'T SECY FOR HEALTH	3,197	1,240	541	-	1,116	-	300	-	-	-
OFF OF HUMAN DEVELOPMENT SERVICES	49,095	1,427	3,172	-	1,142	-	41,594	-	1,760	-
DEPT OF HOUSING & URBAN DEVELOPMENT	30,977	737	14,122	-	3,677	-	11,632	-	809	-
DEPARTMENT OF THE INTERIOR, TOTAL	44,946	22,200	14,946	-	4,370	200	2,400	200	630	-
BUREAU OF LAND MANAGEMENT	430	170	-	-	260	-	-	-	-	-
BUREAU OF MINES	30,161	9,000	14,261	-	3,700	200	2,400	200	400	-
GEOLOGICAL SURVEY	500	10	490	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	13,140	12,555	75	-	280	-	-	-	230	-
WATER AND POWER RESOURCES SERVICE	715	465	120	-	130	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	8,595	1,087	4,053	-	140	-	1,465	-	1,850	-
DRUG ENFORCEMENT ADMINISTRATION	1,200	400	800	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	1,106	275	831	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	2,050	50	-	-	-	-	900	-	1,100	-
IMMIGRATION & NATURALIZATION SVC	228	56	172	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	306	6	300	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	3,705	300	1,950	-	140	-	565	-	750	-
DEPARTMENT OF LABOR, TOTAL	7,733	609	1,585	-	747	-	1,173	-	3,619	-
EMPLOYMENT & TRAINING ADMIN	7,733	609	1,585	-	747	-	1,173	-	3,619	-

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TABLE C-69. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	312,410	96,124	137,513	-	21,691	4,391	14,571	1,700	36,420	-
COAST GUARD	13,000	7,800	4,700	-	500	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	111,900	26,856	70,497	-	287	3,891	10,369	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	51,100	11,591	4,132	-	9,392	-	-	-	25,985	-
FEDERAL RAILROAD ADMINISTRATION	34,000	9,180	21,420	-	680	-	1,020	1,700	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	34,200	1,520	22,506	-	2,557	-	2,532	-	5,085	-
OFFICE OF THE SECRETARY	9,950	5,092	4,758	-	100	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	9,960	6,085	2,000	-	1,875	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	48,300	28,000	7,500	-	6,300	500	650	-	5,350	-
DEPARTMENT OF THE TREASURY, TOTAL	6,337	2,496	3,326	-	-	-	-	515	-	-
BUREAU OF ENGRAVING AND PRINTING ...	2,890	2,338	552	-	-	-	-	-	-	-
CUSTOMS SERVICE	3,200	89	2,596	-	-	-	-	515	-	-
INTERNAL REVENUE SERVICE	92	64	28	-	-	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	155	5	150	-	-	-	-	-	-	-
OTHER AGENCIES										
APPALACHIAN REGIONAL COMMISSION	100	50	-	-	-	-	-	-	50	-
CONSUMER PRODUCT SAFETY COMMISSION ...	1,200	744	432	-	24	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	87,400	25,708	22,954	-	1,088	-	18,600	-	19,050	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	2,478	1,467	87	-	2	-	890	-	32	-
INTERNATIONAL COMMUNICATION AGENCY ...	26	3	23	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	52,655	250	1,215	-	27,245	-	3,640	350	-	19,955
AGENCY FOR INTERNAT'L DEVELOPMENT ..	52,655	250	1,215	-	27,245	-	3,640	350	-	19,355
LIBRARY OF CONGRESS	6,000	5,700	300	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	4,363,452	602,993	3,438,453	-	32,000	105,429	65,980	240	483	117,374
OFFICE OF PERSONNEL MANAGEMENT	2,364	2,364	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	74,800	57,600	-	-	-	-	17,200	-	-	-
VETERANS ADMINISTRATION	16,000	14,717	-	-	1,283	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-70. FEDERAL FUNDS FOR R&D PLANT, BY AGENCY: FISCAL YEARS 1980, 1981, AND 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1980	ESTIMATES		1980	ESTIMATES	
		1981	1982		1981	1982
TOTAL, ALL AGENCIES	1,555,663	1,665,564	1,414,740	1,481,650	1,608,771	1,434,910
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	56,871	26,564	29,116	27,707	50,767	31,509
FOREST SERVICE	3,634	3,200	1,500	3,601	3,200	1,400
SCIENCE & EDUCATION ADMINISTRATION	53,237	23,364	27,616	24,106	47,567	30,209
AGRICULTURAL RESEARCH	53,237	23,364	27,616	24,106	47,567	30,209
DEPARTMENT OF COMMERCE, TOTAL	4,645	909	9,562	4,765	1,307	5,832
MARITIME ADMINISTRATION	500	-	-	600	400	-
NATIONAL BUREAU OF STANDARDS	262	609	9,562	282	607	5,832
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	3,883	300	-	3,883	300	-
DEPARTMENT OF DEFENSE, TOTAL	208,200	235,600	277,900	204,700	210,000	228,900
DEPARTMENT OF THE ARMY	13,800	15,100	26,200	7,600	6,900	10,100
DEPARTMENT OF THE NAVY	83,200	100,100	120,600	90,900	87,200	104,900
DEPARTMENT OF THE AIR FORCE	108,000	116,500	126,100	103,000	112,000	109,000
DEFENSE AGENCIES	3,200	3,900	4,900	3,200	3,900	4,900
DEPARTMENT OF ENERGY	1,024,124	1,184,265	957,443	962,776	1,092,994	957,039
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	30,573	42,136	52,210	76,859	40,685	43,163
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	-	5,425	1,400	130	918	1,272
FOOD & DRUG ADMINISTRATION	1,200	3,000	35,000	700	2,000	4,500
NATIONAL INSTITUTES OF HEALTH	29,373	33,711	15,810	76,029	37,767	37,391
DEPARTMENT OF THE INTERIOR, TOTAL	7,541	5,400	500	8,739	3,300	700
BUREAU OF MINES	1,041	2,000	-	2,438	500	-
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	300	-	-	300	-	-
OFFICE OF WATER RESEARCH & TECHNOLOGY	700	1,100	-	700	1,100	-
UNITED STATES FISH AND WILDLIFE SERVICE	5,500	2,300	500	5,300	2,100	700
DEPARTMENT OF TRANSPORTATION, TOTAL	23,300	15,600	17,900	16,300	15,200	19,200
FEDERAL AVIATION ADMINISTRATION	5,700	4,900	7,500	5,500	7,700	7,200
FEDERAL HIGHWAY ADMINISTRATION	7,200	200	300	300	100	100
FEDERAL RAILROAD ADMINISTRATION	10,200	10,000	9,400	10,300	6,900	11,300
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	200	500	500	200	500	500
DEPARTMENT OF THE TREASURY, TOTAL	40	50	50	40	50	50
CUSTOMS SERVICE	40	50	50	40	50	50
OTHER AGENCIES						
CONSUMER PRODUCT SAFETY COMMISSION	2,700	2,700	2,100	2,700	2,700	2,100
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	6,272	7,673	7,558	6,573	5,794	7,753
AGENCY FOR INTERNATIONAL DEVELOPMENT	6,272	7,673	7,558	6,573	6,794	7,753
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	159,100	115,000	104,900	140,305	156,400	153,500
NATIONAL SCIENCE FOUNDATION	18,700	14,400	19,900	17,600	12,800	15,300
NUCLEAR REGULATORY COMMISSION	7,696	8,477	7,400	7,388	8,139	7,104
SMITHSONIAN INSTITUTION	917	726	930	405	755	700
TENNESSEE VALLEY AUTHORITY	600	300	900	600	300	900
VETERANS ADMINISTRATION	4,384	5,764	26,671	4,194	6,100	10,000

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-71. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY AND PERFORMER OF THE RESEARCH AND DEVELOPMENT THE PLANT SUPPORTS: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	FEDERAL INTRAMURAL	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	1,555,663	491,097	304,038	256,038	40,270	426,317	8,638	24,639	756	3,870
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	56,871	56,871	-	-	-	-	-	-	-	-
FOREST SERVICE	3,634	3,634	-	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	53,237	53,237	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH	53,237	53,237	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	4,645	4,145	500	-	-	-	-	-	-	-
MARITIME ADMINISTRATION	500	-	500	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	262	262	-	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	3,883	3,883	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	208,200	205,381	1,346	-	1,443	20	10	-	-	-
DEPARTMENT OF THE ARMY	13,800	13,800	-	-	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	83,200	83,200	-	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	108,000	108,000	-	-	-	-	-	-	-	-
DEFENSE AGENCIES	3,200	381	1,346	-	1,443	20	10	-	-	-
DEPARTMENT OF ENERGY	1,024,124	17,527	292,169	250,171	24,064	415,053	1,278	23,751	111	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	30,573	19,759	-	-	4,363	-	5,806	-	645	-
FOOD & DRUG ADMINISTRATION	1,200	1,200	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	29,373	18,559	-	-	4,363	-	5,806	-	645	-
DEPARTMENT OF THE INTERIOR, TOTAL	7,541	6,541	700	-	300	-	-	-	-	-
BUREAU OF MINES	1,041	1,041	-	-	-	-	-	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	300	-	-	-	300	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	700	-	700	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	5,500	5,500	-	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	23,300	16,357	6,943	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	5,700	5,700	-	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	7,200	7,200	-	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	10,200	3,257	6,943	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	200	200	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	40	40	-	-	-	-	-	-	-	-
CUSTOMS SERVICE	40	40	-	-	-	-	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	2,700	2,700	-	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	6,272	8	850	-	-	-	1,544	-	-	3,870
AGENCY FOR INTERNAT'L DEVELOPMENT	6,272	8	850	-	-	-	1,544	-	-	3,870
NATIONAL AERONAUTICS & SPACE ADMIN	159,100	154,850	-	-	-	4,250	-	-	-	-
NATIONAL SCIENCE FOUNDATION	18,700	900	1,500	-	10,100	6,200	-	-	-	-
NUCLEAR REGULATORY COMMISSION	7,696	117	30	5,867	-	794	-	898	-	-
SMITHSONIAN INSTITUTION	917	917	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	600	600	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	4,394	4,384	-	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-72. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY AND PERFORMER OF THE RESEARCH AND DEVELOPMENT THE PLANT SUPPORTS: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	FEDERAL INTRA-MURAL	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	1,665,564	439,445	430,656	293,193	30,014	394,177	4,749	18,430	-	54,900
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	26,564	26,564	-	-	-	-	-	-	-	-
FOREST SERVICE	3,200	3,200	-	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	23,364	23,364	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH	23,364	23,364	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	909	470	439	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	609	170	439	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	300	300	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	235,600	232,037	1,233	-	2,002	20	8	-	-	300
DEPARTMENT OF THE ARMY	15,100	15,100	-	-	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	100,100	100,100	-	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	116,500	116,500	-	-	-	-	-	-	-	-
DEFENSE AGENCIES	3,900	337	1,233	-	2,002	20	8	-	-	300
DEPARTMENT OF ENERGY	1,184,265	8,832	418,234	287,851	19,899	378,737	2,627	18,085	-	50,000
DEPT OF HLTH & HUMAN SERVICES, TOTAL	42,136	41,136	-	-	1,000	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	5,425	5,425	-	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	3,000	3,000	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	33,711	32,711	-	-	1,000	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	5,400	4,300	1,100	-	-	-	-	-	-	-
BUREAU OF MINES	2,000	2,000	-	-	-	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	1,100	-	1,100	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	2,300	2,300	-	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	15,600	8,800	6,800	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	4,900	4,900	-	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	200	200	-	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	10,000	3,200	6,800	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	500	500	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	50	50	-	-	-	-	-	-	-	-
CUSTOMS SERVICE	50	50	-	-	-	-	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	2,700	2,700	-	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	7,673	9	950	-	-	-	2,114	-	-	4,600
AGENCY FOR INTERNAT'L DEVELOPMENT	7,673	9	950	-	-	-	2,114	-	-	4,600
NATIONAL AERONAUTICS & SPACE ADMIN	115,000	105,970	-	-	-	9,030	-	-	-	-
NATIONAL SCIENCE FOUNDATION	14,400	1,400	1,900	-	6,900	4,200	-	-	-	-
NUCLEAR REGULATORY COMMISSION	8,477	387	-	5,342	213	2,190	-	345	-	-
SMITHSONIAN INSTITUTION	726	726	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	300	300	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	5,764	5,764	-	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-73. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY AND PERFORMER OF THE RESEARCH AND DEVELOPMENT THE PLANT SUPPORTS: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	FEDERAL INTRAMURAL	EXTRAMURAL								
			UNITED STATES AND TERRITORIES								
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	1,414,740	493,489	185,374	271,799	32,900	418,213	3,945	4,660	-	4,360
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	29,116	29,116	-	-	-	-	-	-	-	-
FOREST SERVICE	1,500	1,500	-	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	27,616	27,616	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH	27,616	27,616	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	9,562	1,170	8,392	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	9,562	1,170	8,392	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	277,800	273,558	1,839	-	2,365	20	18	-	-	-
DEPARTMENT OF THE ARMY	26,200	26,200	-	-	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	120,600	120,600	-	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	126,100	126,100	-	-	-	-	-	-	-	-
DEFENSE AGENCIES	4,900	658	1,839	-	2,365	20	18	-	-	-
DEPARTMENT OF ENERGY	357,443	8,380	163,871	267,284	19,055	392,908	1,720	4,225	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	52,210	51,210	-	-	1,000	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	1,400	1,400	-	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	35,000	35,000	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	15,810	14,810	-	-	1,000	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	600	600	-	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	600	600	-	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	17,800	11,408	6,392	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	7,500	7,500	-	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	300	300	-	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	9,400	3,008	6,392	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	600	600	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	50	50	-	-	-	-	-	-	-	-
CUSTOMS SERVICE	50	50	-	-	-	-	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	2,100	2,100	-	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	7,559	11	980	-	-	-	2,207	-	-	4,360
AGENCY FOR INTERNAT'L DEVELOPMENT	7,559	11	980	-	-	-	2,207	-	-	4,360
NATIONAL AERONAUTICS & SPACE ADMIN	104,800	85,465	-	-	-	19,335	-	-	-	-
NATIONAL SCIENCE FOUNDATION	19,800	1,720	3,600	-	10,480	4,000	-	-	-	-
NUCLEAR REGULATORY COMMISSION	7,400	200	300	4,515	-	1,950	-	435	-	-
SMITHSONIAN INSTITUTION	930	930	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	900	900	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	26,671	26,671	-	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-74. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1980, 1981, AND 1982

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1980	ESTIMATES	
		1981	1982
TOTAL, ALL FIELDS	3,463,608	3,711,143	4,021,365
LIFE SCIENCES, TOTAL	1,984,684	2,114,870	2,278,871
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	1,036,988	1,113,136	1,193,479
ENVIRONMENTAL BIOLOGY	39,462	40,025	43,236
AGRICULTURAL	120,917	135,407	156,387
MEDICAL	709,688	746,854	801,748
LIFE SCIENCES, NEC	77,629	79,448	84,021
PSYCHOLOGY, TOTAL	89,364	86,891	87,870
BIOLOGICAL ASPECTS	31,749	31,492	30,515
SOCIAL ASPECTS	33,602	26,991	29,334
PSYCHOLOGICAL SCIENCES, NEC	24,013	28,408	28,021
PHYSICAL SCIENCES, TOTAL	460,974	512,416	581,147
ASTRONOMY	45,770	50,599	54,518
CHEMISTRY	159,494	176,403	202,350
PHYSICS	246,072	273,391	313,280
PHYSICAL SCIENCES, NEC	9,638	12,023	10,999
ENVIRONMENTAL SCIENCES, TOTAL	297,035	314,291	336,032
ATMOSPHERIC	86,664	90,610	99,180
GEOLOGICAL	83,279	86,998	90,775
OCEANOGRAPHY	104,741	113,242	122,995
ENVIRONMENTAL SCIENCES, NEC	22,351	23,441	23,082
MATHEMATICS & COMPUTER SCIENCES, TOTAL	94,608	117,101	142,800
MATHEMATICS	49,025	57,456	71,987
COMPUTER SCIENCES	41,312	48,865	57,654
MATHEMATICS & COMPUTER SCIENCES, NEC	4,271	10,780	13,159
ENGINEERING, TOTAL	323,723	351,079	403,567
AERONAUTICAL	37,758	41,006	45,165
ASTRONAUTICAL	7,317	7,780	8,545
CHEMICAL	20,250	24,277	26,307
CIVIL	21,624	22,491	25,505
ELECTRICAL	77,266	83,892	100,415
MECHANICAL	32,955	37,419	45,834
METALLURGY & MATERIALS	57,327	70,253	85,105
ENGINEERING, NEC	69,226	63,961	66,689
SOCIAL SCIENCES, TOTAL	137,758	132,404	121,627
ANTHROPOLOGY	6,387	5,924	4,942
ECONOMICS	50,611	50,633	51,757
POLITICAL SCIENCE	4,292	3,557	1,903
SOCIOLOGY	27,019	23,902	21,057
SOCIAL SCIENCES, NEC	49,449	48,388	41,959
OTHER SCIENCES, NEC	75,462	92,091	59,451

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 94 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1980, 1981, AND 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-75. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	3,463,608	1,984,684	89,364	460,974	297,035	94,608	323,723	137,758	75,462
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	214,442	157,357	-	9,670	1,306	282	7,378	38,449	-
AGRICULTURAL COOPERATIVE SVC	215	-	-	-	-	-	-	215	-
AGRICULTURAL MARKETING SERVICE	25	25	-	-	-	-	-	-	-
ECONOMICS & STATISTICS SERVICE	1,695	-	-	-	-	13	-	1,682	-
FOREST SERVICE	9,600	8,487	-	-	240	180	-	693	-
SCIENCE & EDUCATION ADMINISTRATION	202,907	148,845	-	9,670	1,066	89	7,378	35,859	-
AGRICULTURAL RESEARCH	26,132	22,382	-	1,647	52	89	1,884	78	-
AGRICULTURAL COOPERATIVE RESEARCH	176,775	126,463	-	8,023	1,014	-	5,494	35,781	-
DEPARTMENT OF DEFENSE, TOTAL	312,690	27,984	12,456	55,109	52,799	38,693	124,037	818	795
DEPARTMENT OF THE ARMY	49,028	11,362	1,448	8,701	3,485	5,291	18,451	33	257
DEPARTMENT OF THE NAVY	113,906	9,420	4,085	25,909	39,601	9,822	25,069	-	-
DEPARTMENT OF THE AIR FORCE	115,603	7,202	5,117	19,227	7,737	8,286	67,913	-	121
DEFENSE AGENCIES	34,153	-	1,806	1,271	1,976	15,294	12,604	785	417
DEPARTMENT OF ENERGY	224,134	29,108	-	120,337	25,008	4,397	41,429	891	2,964
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,886,203	1,634,702	64,248	52,271	-	3,713	28,076	61,240	41,953
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	123,758	55,003	41,336	1,009	-	42	85	22,035	4,248
CENTERS FOR DISEASE CONTROL	7,670	7,670	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	6,895	6,895	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	7,084	-	-	-	-	-	-	7,084	-
HEALTH RESOURCES ADMINISTRATION	4,676	-	-	-	-	-	-	-	4,676
HEALTH SERVICES ADMINISTRATION	2,998	2,998	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,711,172	1,562,136	22,912	51,262	-	3,671	27,991	10,171	33,029
OFFICE OF ASST'T SECY FOR HEALTH	9,752	-	-	-	-	-	-	9,752	-
OFF OF HUMAN DEVELOPMENT SERVICES	5,869	-	-	-	-	-	-	5,869	-
OFFICE OF THE SECRETARY	2,900	-	-	-	-	-	-	2,900	-
SOCIAL SECURITY ADMINISTRATION	3,429	-	-	-	-	-	-	3,429	-
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	146,104	9,645	807	54,082	45,175	2,757	31,512	217	1,909
NATIONAL SCIENCE FOUNDATION	680,035	125,888	11,853	169,506	172,747	44,766	91,291	36,143	27,841

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 94 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-76. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIOLOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHOLOGICAL SCIENCES NEC	TOTAL	BIOLOGICAL	ENVIRONMENTAL BIOLOGY	AGRICULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	89,364	31,749	33,602	24,013	1,984,684	1,036,988	39,462	120,917	709,688	77,629
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	157,357	28,706	548	120,703	7,400	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	25	-	-	25	-	-
FOREST SERVICE	-	-	-	-	8,487	8,487	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION .	-	-	-	-	148,845	20,219	548	120,678	7,400	-
AGRICULTURAL RESEARCH	-	-	-	-	22,382	5,951	548	15,765	118	-
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	126,463	14,268	-	104,913	7,282	-
DEPARTMENT OF DEFENSE, TOTAL	12,456	114	12,160	182	27,984	12,183	1,630	100	14,021	50
DEPARTMENT OF THE ARMY	1,448	18	1,430	-	11,362	1,010	326	100	9,876	50
DEPARTMENT OF THE NAVY	4,085	-	3,903	182	9,420	5,365	-	-	4,055	-
DEPARTMENT OF THE AIR FORCE	5,117	-	5,117	-	7,202	5,808	1,304	-	90	-
DEFENSE AGENCIES	1,806	96	1,710	-	-	-	-	-	-	-
DEPARTMENT OF ENERGY	-	-	-	-	29,108	24,931	-	34	-	4,143
DEPT OF HLTH & HUMAN SERVICES, TOTAL .	64,248	24,009	17,013	23,226	1,634,702	878,594	85	-	685,824	70,199
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	41,336	24,009	17,013	314	55,003	36,747	85	-	5,650	12,521
CENTERS FOR DISEASE CONTROL	-	-	-	-	7,670	-	-	-	7,670	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	6,895	6,067	-	-	828	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	2,998	-	-	-	2,998	-
NATIONAL INSTITUTES OF HEALTH	22,912	-	-	22,912	1,562,136	835,780	-	-	668,678	57,678
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN ...	807	97	105	605	9,645	3,700	350	80	2,443	3,072
NATIONAL SCIENCE FOUNDATION	11,853	7,529	4,324	-	125,888	88,874	36,849	-	-	165

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 94 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-77. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	460,974	45,770	159,494	246,072	9,638	297,035	86,664	83,279	104,741	22,351
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	9,670	-	9,607	63	-	1,306	1,195	111	-	-
FOREST SERVICE	-	-	-	-	-	240	129	111	-	-
SCIENCE & EDUCATION ADMINISTRATION .	9,670	-	9,607	63	-	1,066	1,066	-	-	-
AGRICULTURAL RESEARCH	1,647	-	1,584	63	-	52	52	-	-	-
AGRICULTURAL COOPERATIVE RESEARCH	8,023	-	8,023	-	-	1,014	1,014	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	55,108	3,513	17,375	33,856	364	52,799	10,720	5,781	29,216	7,082
DEPARTMENT OF THE ARMY	8,701	-	4,169	4,204	328	3,485	2,332	714	30	409
DEPARTMENT OF THE NAVY	25,909	1,213	5,792	18,904	-	39,601	1,504	2,730	28,694	6,673
DEPARTMENT OF THE AIR FORCE	19,227	2,300	7,375	9,552	-	7,737	6,686	1,051	-	-
DEFENSE AGENCIES	1,271	-	39	1,196	36	1,976	198	1,286	492	-
DEPARTMENT OF ENERGY	120,337	-	14,968	101,872	3,497	25,008	628	8,131	8,654	7,595
DEPT OF HLTH & HUMAN SERVICES, TOTAL .	52,271	-	49,314	2,957	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	1,009	-	1,009	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	51,262	-	48,305	2,957	-	-	-	-	-	-
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN ...	54,082	26,564	4,147	18,139	5,232	45,175	25,336	11,775	909	7,155
NATIONAL SCIENCE FOUNDATION	169,506	15,693	64,083	89,185	545	172,747	48,785	57,481	65,962	519

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 94 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-78. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	323,723	37,758	7,317	20,250	21,624	77,266	32,955	57,327	69,226
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	7,378	-	-	52	-	-	227	-	7,099
SCIENCE & EDUCATION ADMINISTRATION	7,378	-	-	52	-	-	227	-	7,099
AGRICULTURAL RESEARCH	1,884	-	-	52	-	-	227	-	1,605
AGRICULTURAL COOPERATIVE RESEARCH	5,494	-	-	-	-	-	-	-	5,494
DEPARTMENT OF DEFENSE, TOTAL	124,037	23,525	6,082	3,821	1,338	51,443	15,034	22,168	626
DEPARTMENT OF THE ARMY	18,451	1,352	-	251	917	8,782	3,030	3,912	207
DEPARTMENT OF THE NAVY	25,069	1,366	-	3,202	131	10,071	5,015	5,058	226
DEPARTMENT OF THE AIR FORCE	67,913	20,793	6,082	368	271	24,892	5,399	10,108	-
DEFENSE AGENCIES	12,604	14	-	-	19	7,698	1,590	3,090	193
DEPARTMENT OF ENERGY	41,429	-	-	2,770	43	1,744	2,086	9,642	25,144
DEPT OF HLTH & HUMAN SERVICES, TOTAL	28,076	-	-	-	-	-	-	-	28,076
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	85	-	-	-	-	-	-	-	85
NATIONAL INSTITUTES OF HEALTH	27,391	-	-	-	-	-	-	-	27,991
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	31,512	13,187	1,235	206	55	4,103	3,062	5,561	4,103
NATIONAL SCIENCE FOUNDATION	91,291	1,046	-	13,401	20,188	19,976	12,546	19,956	4,178

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 94 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-79. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	94,608	49,025	41,312	4,271	137,758	6,387	50,611	4,292	27,019	49,449
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	282	282	-	-	38,449	-	36,464	-	1,967	18
AGRICULTURAL COOPERATIVE SVC	-	-	-	-	215	-	215	-	-	-
ECONOMICS & STATISTICS SERVICE	13	13	-	-	1,682	-	1,592	-	72	18
FOREST SERVICE	180	180	-	-	693	-	693	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	89	89	-	-	35,859	-	33,964	-	1,895	-
AGRICULTURAL RESEARCH	89	89	-	-	78	-	78	-	-	-
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	35,781	-	33,886	-	1,895	-
DEPARTMENT OF DEFENSE, TOTAL	33,693	16,121	18,863	3,709	818	-	-	239	27	552
DEPARTMENT OF THE ARMY	5,291	4,104	1,172	15	33	-	-	-	27	6
DEPARTMENT OF THE NAVY	9,822	6,766	3,056	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	8,286	5,022	3,264	-	-	-	-	-	-	-
DEFENSE AGENCIES	15,294	229	11,371	3,694	785	-	-	239	-	546
DEPARTMENT OF ENERGY	4,397	2,921	1,170	306	891	-	-	-	-	891
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,713	3,671	-	42	61,240	980	3,184	646	21,026	35,404
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	42	-	-	42	22,035	980	86	514	17,830	2,625
HEALTH CARE FINANCING ADMIN	-	-	-	-	7,084	-	-	-	-	7,084
NATIONAL INSTITUTES OF HEALTH	3,671	3,671	-	-	10,171	-	-	-	-	10,171
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	9,752	-	1,068	132	2,326	6,226
OFF OF HUMAN DEVELOPMENT SERVICES	-	-	-	-	5,869	-	-	-	-	5,869
OFFICE OF THE SECRETARY	-	-	-	-	2,900	-	2,030	-	870	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	3,429	-	-	-	-	3,429
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	2,757	1,344	1,214	199	217	-	22	-	25	170
NATIONAL SCIENCE FOUNDATION	44,766	24,686	20,065	15	36,143	5,407	10,941	3,407	3,974	12,414

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 94 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-30. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1980, 1981, AND 1982

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1980	ESTIMATES	
		1981	1982
TOTAL, ALL FIELDS	2,291,264	2,498,215	2,740,001
LIFE SCIENCES, TOTAL	1,219,540	1,317,984	1,428,957
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	712,238	774,469	833,095
ENVIRONMENTAL BIOLOGY	37,001	38,254	41,214
AGRICULTURAL	51,857	57,982	71,949
MEDICAL	372,110	398,250	430,317
LIFE SCIENCES, NEC	46,334	49,029	52,382
PSYCHOLOGY, TOTAL	52,416	52,823	55,254
BIOLOGICAL ASPECTS	18,491	18,006	17,965
SOCIAL ASPECTS	18,527	17,070	19,372
PSYCHOLOGICAL SCIENCES, NEC	15,398	17,747	17,917
PHYSICAL SCIENCES, TOTAL	375,902	420,521	482,933
ASTRONOMY	41,131	45,599	49,418
CHEMISTRY	136,092	152,214	175,653
PHYSICS	194,284	217,147	252,186
PHYSICAL SCIENCES, NEC	4,395	5,561	5,676
ENVIRONMENTAL SCIENCES, TOTAL	255,297	273,826	296,136
ATMOSPHERIC	74,867	77,955	85,913
GEOLOGICAL	74,447	79,748	84,479
OCEANOGRAPHY	94,945	105,242	115,670
ENVIRONMENTAL SCIENCES, NEC	11,038	10,881	10,074
MATHEMATICS & COMPUTER SCIENCES, TOTAL	79,799	96,678	116,297
MATHEMATICS	46,092	54,054	67,861
COMPUTER SCIENCES	31,372	37,053	43,350
MATHEMATICS & COMPUTER SCIENCES, NEC	2,335	5,571	5,086
ENGINEERING, TOTAL	209,416	237,913	289,146
AERONAUTICAL	22,071	25,039	28,437
ASTRONAUTICAL	995	1,100	1,150
CHEMICAL	16,946	19,579	22,331
CIVIL	15,068	15,501	18,739
ELECTRICAL	47,482	53,021	67,674
MECHANICAL	25,659	30,849	40,504
METALLURGY & MATERIALS	51,871	63,167	76,792
ENGINEERING, NEC	29,324	29,657	33,519
SOCIAL SCIENCES, TOTAL	63,956	60,151	49,050
ANTHROPOLOGY	5,759	5,374	4,391
ECONOMICS	22,273	21,630	19,523
POLITICAL SCIENCE	3,572	2,945	1,488
SOCIOLOGY	12,139	11,449	9,440
SOCIAL SCIENCES, NEC	20,213	18,753	14,208
OTHER SCIENCES, NEC	35,938	38,319	22,228

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1980, 1981, AND 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-81. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	2,291,264	1,219,540	52,416	375,902	255,297	79,799	208,416	63,956	35,938
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	90,245	69,663	-	3,715	567	213	2,464	13,623	-
ECONOMICS & STATISTICS SERVICE	612	-	-	-	-	-	-	612	-
FOREST SERVICE	5,003	4,374	-	-	170	151	-	308	-
SCIENCE & EDUCATION ADMINISTRATION	84,630	65,289	-	3,715	397	62	2,464	12,703	-
AGRICULTURAL RESEARCH	12,339	10,809	-	875	38	62	519	35	-
AGRICULTURAL COOPERATIVE RESEARCH	72,291	54,480	-	2,840	359	-	1,945	12,667	-
DEPARTMENT OF DEFENSE, TOTAL	208,336	15,543	9,294	37,880	46,050	28,272	70,550	747	-
DEPARTMENT OF THE ARMY	33,922	4,504	1,395	7,590	2,005	4,812	13,583	33	-
DEPARTMENT OF THE NAVY	100,197	8,153	3,903	16,827	39,005	8,981	23,328	-	-
DEPARTMENT OF THE AIR FORCE	55,327	2,886	2,953	13,404	3,645	5,405	27,034	-	-
DEFENSE AGENCIES	18,890	-	1,043	59	1,395	9,074	6,605	714	-
DEPARTMENT OF ENERGY	116,009	9,796	-	86,396	2,483	4,091	13,087	-	156
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,120,999	997,703	32,024	38,201	-	2,044	18,423	20,809	11,795
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	51,912	24,337	17,205	497	-	18	36	8,027	1,792
NATIONAL INSTITUTES OF HEALTH	1,062,958	973,366	14,819	37,704	-	2,026	18,387	6,653	10,003
OFFICE OF ASST'T SECY FOR HEALTH	4,230	-	-	-	-	-	-	4,230	-
OFFICE OF THE SECRETARY	1,899	-	-	-	-	-	-	1,899	-
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	112,751	7,441	649	43,991	35,258	1,847	22,073	187	1,305
NATIONAL SCIENCE FOUNDATION	642,924	119,394	10,449	165,719	170,939	43,332	81,819	28,590	22,682

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-82. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIOLOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHOLOGICAL SCIENCES NEC	TOTAL	BIOLOGICAL	ENVIRONMENTAL BIOLOGY	AGRICULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	52,416	18,491	18,527	15,398	1,219,540	712,238	37,001	51,857	372,110	46,334
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	69,663	15,000	272	51,777	2,614	-
FOREST SERVICE	-	-	-	-	4,374	4,374	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	65,289	10,626	272	51,777	2,614	-
AGRICULTURAL RESEARCH	-	-	-	-	10,809	3,702	272	5,799	36	-
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	54,480	6,924	-	44,978	2,578	-
DEPARTMENT OF DEFENSE, TOTAL	9,294	114	9,180	-	15,543	7,951	1,246	-	6,346	-
DEPARTMENT OF THE ARMY	1,395	18	1,377	-	4,504	907	105	-	3,492	-
DEPARTMENT OF THE NAVY	3,903	-	3,903	-	8,153	5,299	-	-	2,854	-
DEPARTMENT OF THE AIR FORCE	2,953	-	2,953	-	2,886	1,745	1,141	-	-	-
DEFENSE AGENCIES	1,043	96	947	-	-	-	-	-	-	-
DEPARTMENT OF ENERGY	-	-	-	-	9,796	9,696	-	-	-	100
DEPT OF HLTH & HUMAN SERVICES, TOTAL	32,024	11,094	5,989	14,951	997,703	591,847	36	-	361,833	43,987
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	17,205	11,094	5,989	132	24,337	17,977	36	-	1,111	5,213
NATIONAL INSTITUTES OF HEALTH	14,819	-	-	14,819	973,366	573,870	-	-	360,722	38,774
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	649	97	105	447	7,441	3,522	340	90	1,317	2,132
NATIONAL SCIENCE FOUNDATION	10,449	7,196	3,253	-	119,394	84,222	35,107	-	-	65

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-93. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	375,902	41,131	136,092	194,284	4,395	255,297	74,867	74,447	94,945	11,033
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	3,715	-	3,679	36	-	567	456	111	-	-
FOREST SERVICE	-	-	-	-	-	170	59	111	-	-
SCIENCE & EDUCATION ADMINISTRATION	3,715	-	3,679	36	-	397	397	-	-	-
AGRICULTURAL RESEARCH	875	-	839	36	-	38	38	-	-	-
AGRICULTURAL COOPERATIVE RESEARCH	2,840	-	2,840	-	-	359	359	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	37,880	3,513	15,045	19,279	43	46,050	5,902	5,071	29,380	5,697
DEPARTMENT OF THE ARMY	7,590	-	3,593	3,954	43	2,005	1,343	633	-	29
DEPARTMENT OF THE NAVY	16,827	1,213	5,792	9,822	-	39,005	1,429	2,730	29,173	5,673
DEPARTMENT OF THE AIR FORCE	13,404	2,300	5,621	5,483	-	3,645	3,130	515	-	-
DEFENSE AGENCIES	59	-	39	20	-	1,395	-	1,183	207	-
DEPARTMENT OF ENERGY	86,396	-	14,955	71,141	300	2,483	-	2,233	-	250
DEPT OF HLTH & HUMAN SERVICES, TOTAL	38,201	-	36,248	1,953	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	497	-	497	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	37,704	-	35,751	1,953	-	-	-	-	-	-
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	43,991	21,950	3,877	14,237	3,927	35,258	19,789	10,979	618	3,972
NATIONAL SCIENCE FOUNDATION	165,719	15,668	62,288	87,638	125	170,939	48,720	56,153	65,947	119

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-94. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	208,416	22,071	995	16,946	15,068	47,482	25,659	51,871	23,324
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	2,464	-	-	38	-	-	172	-	2,254
SCIENCE & EDUCATION ADMINISTRATION	2,464	-	-	38	-	-	172	-	2,254
AGRICULTURAL RESEARCH	519	-	-	38	-	-	172	-	309
AGRICULTURAL COOPERATIVE RESEARCH	1,945	-	-	-	-	-	-	-	1,945
DEPARTMENT OF DEFENSE, TOTAL	70,550	10,467	-	3,393	72	26,021	10,833	19,751	13
DEPARTMENT OF THE ARMY	13,583	1,108	-	201	72	6,682	2,015	3,492	13
DEPARTMENT OF THE NAVY	23,328	935	-	3,192	-	9,563	4,739	4,899	-
DEPARTMENT OF THE AIR FORCE	27,034	8,424	-	-	-	6,261	4,079	8,270	-
DEFENSE AGENCIES	6,605	-	-	-	-	3,515	-	3,090	-
DEPARTMENT OF ENERGY	13,087	-	-	211	-	-	887	9,642	2,347
DEPT OF HLTH & HUMAN SERVICES, TOTAL	18,423	-	-	-	-	-	-	-	18,423
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	36	-	-	-	-	-	-	-	36
NATIONAL INSTITUTES OF HEALTH	18,387	-	-	-	-	-	-	-	18,387
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	22,073	10,558	995	173	55	1,900	1,448	5,080	1,864
NATIONAL SCIENCE FOUNDATION	81,819	1,046	-	13,131	14,941	19,561	12,319	17,398	3,423

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-85. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	79,799	46,092	31,372	2,335	63,956	5,759	22,273	3,572	12,139	20,213
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	213	213	-	-	13,623	-	12,896	-	720	7
ECONOMICS & STATISTICS SERVICE	-	-	-	-	612	-	556	-	49	7
FOREST SERVICE	151	151	-	-	308	-	308	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	62	62	-	-	12,703	-	12,032	-	671	-
AGRICULTURAL RESEARCH	62	62	-	-	36	-	36	-	-	-
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	12,667	-	11,996	-	671	-
DEPARTMENT OF DEFENSE, TOTAL	28,272	15,279	10,781	2,212	747	-	-	168	27	552
DEPARTMENT OF THE ARMY	4,812	3,996	806	10	33	-	-	-	27	6
DEPARTMENT OF THE NAVY	8,981	6,466	2,515	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	5,405	4,588	817	-	-	-	-	-	-	-
DEFENSE AGENCIES	9,074	229	6,643	2,202	714	-	-	168	-	546
DEPARTMENT OF ENERGY	4,091	2,921	1,170	-	-	-	-	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	2,044	2,026	-	18	20,809	412	1,810	271	7,893	10,423
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	18	-	-	18	8,027	412	36	216	6,354	1,009
NATIONAL INSTITUTES OF HEALTH	2,026	2,026	-	-	6,653	-	-	-	-	6,653
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	4,230	-	445	55	969	2,761
OFFICE OF THE SECRETARY	-	-	-	-	1,899	-	1,329	-	570	-
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	1,847	1,163	579	105	187	-	22	-	25	140
NATIONAL SCIENCE FOUNDATION	43,332	24,490	18,842	-	28,590	5,347	7,545	3,133	3,474	9,091

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-86. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1980, 1981, AND 1982

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1980	ESTIMATES	
		1981	1982
TOTAL, ALL FIELDS	1,172,344	1,212,928	1,281,364
LIFE SCIENCES, TOTAL	765,144	796,886	849,914
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	324,750	338,667	360,384
ENVIRONMENTAL BIOLOGY	2,461	1,771	2,022
AGRICULTURAL	69,060	77,425	84,438
MEDICAL	337,578	348,604	371,431
LIFE SCIENCES, NEC	31,295	30,419	31,639
PSYCHOLOGY, TOTAL	36,948	34,068	32,616
BIOLOGICAL ASPECTS	13,258	13,486	12,550
SOCIAL ASPECTS	15,075	9,921	9,962
PSYCHOLOGICAL SCIENCES, NEC	8,615	10,661	10,104
PHYSICAL SCIENCES, TOTAL	85,072	91,895	98,214
ASTRONOMY	4,639	5,000	5,100
CHEMISTRY	23,402	24,189	26,697
PHYSICS	51,788	56,244	61,094
PHYSICAL SCIENCES, NEC	5,243	6,462	5,323
ENVIRONMENTAL SCIENCES, TOTAL	41,738	40,465	39,896
ATMOSPHERIC	11,797	12,655	13,267
GEOLOGICAL	8,832	7,250	6,296
OCEANOGRAPHY	9,796	8,000	7,325
ENVIRONMENTAL SCIENCES, NEC	11,313	12,560	13,008
MATHEMATICS & COMPUTER SCIENCES, TOTAL	14,809	20,423	26,503
MATHEMATICS	2,933	3,402	4,126
COMPUTER SCIENCES	9,940	11,812	14,304
MATHEMATICS & COMPUTER SCIENCES, NEC	1,936	5,209	8,073
ENGINEERING, TOTAL	115,307	113,166	114,421
AERONAUTICAL	15,687	15,967	16,729
ASTRONAUTICAL	6,322	6,680	7,395
CHEMICAL	3,304	4,698	3,975
CIVIL	6,556	6,990	6,755
ELECTRICAL	29,784	30,871	32,742
MECHANICAL	7,296	6,570	5,330
METALLURGY & MATERIALS	5,456	7,086	8,313
ENGINEERING, NEC	40,902	34,304	33,170
SOCIAL SCIENCES, TOTAL	73,802	72,253	72,577
ANTHROPOLOGY	628	550	551
ECONOMICS	28,338	29,003	32,244
POLITICAL SCIENCE	720	612	415
SOCIOLOGY	14,880	12,453	11,617
SOCIAL SCIENCES, NEC	29,236	29,635	27,750
OTHER SCIENCES, NEC	39,574	43,772	47,223

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 85 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1980, 1981, AND 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-87. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	1,172,344	765,144	36,948	85,072	41,738	14,809	115,307	73,802	39,524
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	124,197	87,694	-	5,955	739	69	4,914	24,826	-
AGRICULTURAL COOPERATIVE SVC	215	-	-	-	-	-	-	215	-
AGRICULTURAL MARKETING SERVICE	25	25	-	-	-	-	-	-	-
ECONOMICS & STATISTICS SERVICE	1,083	-	-	-	-	13	-	1,070	-
FOREST SERVICE	4,597	4,113	-	-	70	29	-	385	-
SCIENCE & EDUCATION ADMINISTRATION	118,277	83,556	-	5,955	669	27	4,914	23,156	-
AGRICULTURAL RESEARCH	13,793	11,573	-	772	14	27	1,365	42	-
AGRICULTURAL COOPERATIVE RESEARCH	104,484	71,983	-	5,183	655	-	3,549	23,114	-
DEPARTMENT OF DEFENSE, TOTAL	104,354	12,441	3,162	17,228	6,749	10,421	53,487	71	795
DEPARTMENT OF THE ARMY	15,106	6,858	53	1,111	1,480	479	4,868	-	257
DEPARTMENT OF THE NAVY	13,709	1,267	182	9,082	596	841	1,741	-	-
DEPARTMENT OF THE AIR FORCE	60,276	4,316	2,164	5,823	4,092	2,881	40,879	-	121
DEFENSE AGENCIES	15,263	-	763	1,212	581	6,220	5,999	71	417
DEPARTMENT OF ENERGY	108,125	19,312	-	33,941	22,525	306	28,342	891	2,808
DEPT OF HLTH & HUMAN SERVICES, TOTAL	765,204	636,999	32,224	14,070	-	1,669	9,653	40,431	30,158
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	71,846	30,666	24,131	512	-	24	49	14,008	2,456
CENTERS FOR DISEASE CONTROL	7,670	7,670	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	6,895	6,895	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	7,094	-	-	-	-	-	-	7,084	-
HEALTH RESOURCES ADMINISTRATION	4,676	-	-	-	-	-	-	-	4,676
HEALTH SERVICES ADMINISTRATION	2,998	2,998	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	648,214	588,770	8,093	13,558	-	1,645	9,604	3,518	23,026
OFFICE OF ASST'T SECY FOR HEALTH	5,522	-	-	-	-	-	-	5,522	-
OFF OF HUMAN DEVELOPMENT SERVICES	5,869	-	-	-	-	-	-	5,869	-
OFFICE OF THE SECRETARY	1,001	-	-	-	-	-	-	1,001	-
SOCIAL SECURITY ADMINISTRATION	3,429	-	-	-	-	-	-	3,429	-
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	33,353	2,204	158	10,091	9,917	910	9,439	30	604
NATIONAL SCIENCE FOUNDATION	37,111	6,494	1,404	3,787	1,808	1,434	9,472	7,553	5,159

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 85 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-88. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	36,948	13,258	15,075	8,615	765,144	324,750	2,461	69,060	337,578	31,295
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	87,694	13,706	276	68,925	4,786	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	25	-	-	25	-	-
FOREST SERVICE	-	-	-	-	4,113	4,113	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION .	-	-	-	-	83,556	9,593	276	68,901	4,786	-
AGRICULTURAL RESEARCH	-	-	-	-	11,573	2,249	276	8,966	82	-
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	71,983	7,344	-	59,935	4,704	-
DEPARTMENT OF DEFENSE, TOTAL	3,162	-	2,980	182	12,441	4,232	384	100	7,675	50
DEPARTMENT OF THE ARMY	53	-	53	-	6,858	103	221	100	6,384	50
DEPARTMENT OF THE NAVY	182	-	-	182	1,267	66	-	-	1,201	-
DEPARTMENT OF THE AIR FORCE	2,164	-	2,164	-	4,316	4,063	163	-	90	-
DEFENSE AGENCIES	763	-	763	-	-	-	-	-	-	-
DEPARTMENT OF ENERGY	-	-	-	-	19,312	15,235	-	34	-	4,043
DEPT OF HLTH & HUMAN SERVICES, TOTAL .	32,224	12,925	11,024	8,275	636,999	286,747	49	-	323,991	26,212
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	24,131	12,925	11,024	182	30,666	18,770	49	-	4,539	7,308
CENTERS FOR DISEASE CONTROL	-	-	-	-	7,670	-	-	-	7,670	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	6,895	6,067	-	-	828	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	2,998	-	-	-	2,998	-
NATIONAL INSTITUTES OF HEALTH	8,093	-	-	8,093	583,770	261,910	-	-	307,956	13,904
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN ...	158	-	-	158	2,204	179	10	-	1,126	890
NATIONAL SCIENCE FOUNDATION	1,404	333	1,071	-	6,494	4,652	1,742	-	-	100

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 85 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-89. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOS-PHERIC	GEO-LOGICAL	OCEAN-OGRAPHY	ENVIRON-MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	85,072	4,639	23,402	51,788	5,243	41,738	11,797	8,832	9,796	11,313
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	5,955	-	5,928	27	-	739	739	-	-	-
FOREST SERVICE	-	-	-	-	-	70	70	-	-	-
SCIENCE & EDUCATION ADMINISTRATION .	5,955	-	5,928	27	-	669	669	-	-	-
AGRICULTURAL RESEARCH	772	-	745	27	-	14	14	-	-	-
AGRICULTURAL COOPERATIVE RESEARCH	5,183	-	5,183	-	-	655	655	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	17,228	-	2,330	14,577	321	6,749	4,818	710	836	385
DEPARTMENT OF THE ARMY	1,111	-	576	250	285	1,480	989	76	30	385
DEPARTMENT OF THE NAVY	9,082	-	-	9,082	-	596	75	-	521	-
DEPARTMENT OF THE AIR FORCE	5,823	-	1,754	4,069	-	4,092	3,556	536	-	-
DEFENSE AGENCIES	1,212	-	-	1,176	36	581	198	98	285	-
DEPARTMENT OF ENERGY	33,941	-	13	30,731	3,197	22,525	628	5,898	8,654	7,345
DEPT OF HLTH & HUMAN SERVICES, TOTAL .	14,070	-	13,066	1,004	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	512	-	512	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	13,558	-	12,554	1,004	-	-	-	-	-	-
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN ...	10,091	4,614	270	3,902	1,305	9,917	5,547	896	291	3,183
NATIONAL SCIENCE FOUNDATION	3,787	25	1,795	1,547	420	1,808	65	1,329	15	400

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 85 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-90. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	115,307	15,687	6,322	3,304	6,556	29,784	7,296	5,456	40,902
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	4,914	-	-	14	-	-	55	-	4,845
SCIENCE & EDUCATION ADMINISTRATION	4,914	-	-	14	-	-	55	-	4,845
AGRICULTURAL RESEARCH	1,365	-	-	14	-	-	55	-	1,296
AGRICULTURAL COOPERATIVE RESEARCH	3,549	-	-	-	-	-	-	-	3,549
DEPARTMENT OF DEFENSE, TOTAL	53,487	13,058	6,082	428	1,266	25,422	4,201	2,417	613
DEPARTMENT OF THE ARMY	4,868	244	-	50	845	2,100	1,015	420	194
DEPARTMENT OF THE NAVY	1,741	431	-	10	131	508	276	159	226
DEPARTMENT OF THE AIR FORCE	40,879	12,369	6,082	368	271	18,631	1,320	1,838	-
DEFENSE AGENCIES	5,999	14	-	-	19	4,183	1,590	-	193
DEPARTMENT OF ENERGY	28,342	-	-	2,559	43	1,744	1,199	-	22,797
DEPT OF HLTH & HUMAN SERVICES, TOTAL	9,653	-	-	-	-	-	-	-	9,653
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	49	-	-	-	-	-	-	-	49
NATIONAL INSTITUTES OF HEALTH	9,604	-	-	-	-	-	-	-	9,604
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	9,439	2,629	240	33	-	2,203	1,614	481	2,239
NATIONAL SCIENCE FOUNDATION	9,472	-	-	270	5,247	415	227	2,558	755

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 85 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-91. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	14,809	2,933	9,940	1,936	73,802	628	28,338	720	14,880	29,236
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	69	69	-	-	24,926	-	23,568	-	1,247	11
AGRICULTURAL COOPERATIVE SVC	-	-	-	-	215	-	215	-	-	-
ECONOMICS & STATISTICS SERVICE	13	13	-	-	1,070	-	1,036	-	23	11
FOREST SERVICE	29	29	-	-	385	-	385	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	27	27	-	-	23,156	-	21,932	-	1,224	-
AGRICULTURAL RESEARCH	27	27	-	-	42	-	42	-	-	-
AGRICULTURAL COOPERATIVE RESEARCH	-	-	-	-	23,114	-	21,890	-	1,224	-
DEPARTMENT OF DEFENSE, TOTAL	10,421	842	8,082	1,497	71	-	-	71	-	-
DEPARTMENT OF THE ARMY	479	108	366	5	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	841	300	541	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	2,881	434	2,447	-	-	-	-	-	-	-
DEFENSE AGENCIES	6,220	-	4,728	1,492	71	-	-	71	-	-
DEPARTMENT OF ENERGY	306	-	-	306	891	-	-	-	-	891
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,669	1,645	-	24	40,431	568	1,374	375	13,133	24,981
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	24	-	-	24	14,008	568	50	298	11,476	1,616
HEALTH CARE FINANCING ADMIN	-	-	-	-	7,084	-	-	-	-	7,084
NATIONAL INSTITUTES OF HEALTH	1,645	1,645	-	-	3,518	-	-	-	-	3,518
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	5,522	-	623	77	1,357	3,465
OFF OF HUMAN DEVELOPMENT SERVICES	-	-	-	-	5,869	-	-	-	-	5,869
OFFICE OF THE SECRETARY	-	-	-	-	1,001	-	701	-	300	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	3,429	-	-	-	-	3,429
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	910	181	635	94	30	-	-	-	-	30
NATIONAL SCIENCE FOUNDATION	1,434	196	1,223	15	7,553	60	3,396	274	500	3,323

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 85 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-92. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO FOREIGN PERFORMERS, BY REGION, COUNTRY, AND AGENCY: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

REGION AND COUNTRY	TOTAL	DEPARTMENT OF AGRICULTURE	DEPARTMENT OF DEFENSE	DEPARTMENT OF ENERGY	DEPARTMENT OF HEALTH AND HUMAN SERVICES	INTERNAT'L DEVELOPMENT COOPERATION	ENVIRONMENTAL PROTECTION AGENCY	NATIONAL SCIENCE FOUNDATION	OTHER
TOTAL	211,205	6,891	56,579	14,178	27,580	53,211	2,100	1,438	49,228
EUROPE, TOTAL	92,738	1,269	35,903	13,529	8,319	-	155	425	33,188
AUSTRIA	126	-	68	-	58	-	-	-	-
BELGIUM	530	-	305	-	225	-	-	-	-
DENMARK	284	-	12	-	253	-	-	-	19
FINLAND	344	-	-	-	299	-	-	-	45
FRANCE	33,590	489	1,085	40	402	-	50	-	31,524
ICELAND	85	-	-	85	-	-	-	-	-
IRELAND	240	-	86	-	102	-	-	-	52
ITALY	2,306	363	717	-	926	-	-	-	300
NETHERLANDS	3,158	350	294	2,000	335	-	-	140	39
NORWAY	7,378	-	6,814	-	87	-	-	-	477
POLAND	31	31	-	-	-	-	-	-	-
PORTUGAL	104	-	-	-	104	-	-	-	-
SPAIN	273	-	37	150	42	-	-	-	44
SWEDEN	1,855	-	16	-	1,568	-	-	-	271
SWITZERLAND	1,150	-	75	45	925	-	-	105	-
UNITED KINGDOM, TOTAL	33,884	-	23,087	7,689	2,726	-	5	180	197
ENGLAND	27,459	-	17,027	7,689	2,421	-	5	120	197
SCOTLAND	2,173	-	1,868	-	305	-	-	-	-
BERMUDA	63	-	3	-	-	-	-	60	-
OTHER UNITED KINGDOM	4,189	-	4,189	-	-	-	-	-	-
WEST GERMANY	5,216	3	3,307	1,520	216	-	100	-	70
YUGOSLAVIA	224	23	-	-	51	-	-	-	150
OTHER EUROPE	2,000	-	-	2,000	-	-	-	-	-
ASIA, TOTAL	11,722	3,692	631	8	812	-	511	921	5,147
BURMA	36	2	6	-	-	-	-	-	28
INDIA	6,506	1,952	-	-	55	-	450	156	3,893
INDONESIA	6	-	6	-	-	-	-	-	-
JAPAN	1,837	61	93	8	757	-	-	-	918
SOUTH KOREA	59	-	59	-	-	-	-	-	-
MALAYSIA	450	-	450	-	-	-	-	-	-
PAKISTAN	2,250	1,110	6	-	-	-	61	765	308
PHILIPPINES	11	-	11	-	-	-	-	-	-
THAILAND	567	567	-	-	-	-	-	-	-
NEAR EAST, TOTAL	17,853	1,422	9,272	71	3,886	-	1,312	92	1,798
GREECE	11	-	11	-	-	-	-	-	-
ISRAEL	4,748	6	1,407	46	3,249	-	15	-	25
UNITED ARAB REPUBLIC	12,853	1,416	7,854	-	637	-	1,297	92	1,557
OTHER NEAR EAST	241	-	-	25	-	-	-	-	216
AFRICA, TOTAL	962	129	198	-	259	-	-	-	376
KENYA	308	122	186	-	-	-	-	-	-
SUDAN	3	-	3	-	-	-	-	-	-
UNION OF SOUTH AFRICA	59	-	-	-	59	-	-	-	-
OTHER AFRICA	592	7	9	-	200	-	-	-	376
LATIN AMERICA, TOTAL	2,514	153	342	240	262	1,472	-	-	45
ARGENTINA	386	153	76	-	157	-	-	-	-
BRAZIL	161	-	161	-	-	-	-	-	-
COLOMBIA	51	-	-	-	51	-	-	-	-
MEXICO	54	-	-	-	54	-	-	-	-
PANAMA	94	-	49	-	-	-	-	-	45
PERU	46	-	46	-	-	-	-	-	-
VENEZUELA	250	-	10	240	-	-	-	-	-
OTHER LATIN AMERICA	1,472	-	-	-	-	1,472	-	-	-
AUSTRALIA	1,541	3	303	-	1,174	-	-	-	51
CANADA	27,740	213	9,930	330	8,633	-	22	-	8,612
NEW ZEALAND	168	-	-	-	68	-	100	-	-
INTERNATIONAL ORGANIZATIONS	55,906	-	-	-	4,167	51,739	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE C-93. FEDERAL OBLIGATIONS FOR BASIC RESEARCH TO FOREIGN PERFORMERS, BY REGION, COUNTRY, AND AGENCY: FISCAL YEAR 1990

(THOUSANDS OF DOLLARS)

REGION AND COUNTRY	TOTAL	DEPARTMENT OF AGRICULTURE	DEPARTMENT OF DEFENSE	DEPARTMENT OF HEALTH AND HUMAN SERVICES	NATIONAL SCIENCE FOUNDATION	NATIONAL AERONAUTICS AND SPACE ADMIN	OTHER
TOTAL	28,099	2,710	7,476	9,540	940	1,729	5,704
EUROPE, TOTAL	8,712	396	4,027	3,329	425	385	150
AUSTRIA	76	-	68	8	-	-	-
BELGIUM	277	-	121	156	-	-	-
DENMARK	144	-	-	141	-	3	-
FINLAND	189	-	-	189	-	-	-
FRANCE	543	147	285	106	-	5	-
IRELAND	120	-	86	34	-	-	-
ITALY	643	113	48	182	-	300	-
NETHERLANDS	492	111	112	117	140	12	-
NORWAY	252	-	240	12	-	-	-
POLAND	14	14	-	-	-	-	-
PORTUGAL	100	-	-	100	-	-	-
SPAIN	213	-	26	37	-	-	150
SWEDEN	670	-	16	642	-	12	-
SWITZERLAND	652	-	45	502	105	-	-
UNITED KINGDOM, TOTAL	3,876	-	2,697	963	180	36	-
ENGLAND	3,748	-	2,672	920	120	36	-
SCOTLAND	68	-	25	43	-	-	-
BERMUDA	60	-	-	-	60	-	-
WEST GERMANY	405	1	283	104	-	17	-
YUGOSLAVIA	46	10	-	36	-	-	-
ASIA, TOTAL	5,891	1,388	78	107	455	57	3,806
BURMA	35	1	6	-	-	-	28
INDIA	4,487	858	-	-	70	-	3,559
INDONESIA	6	-	6	-	-	-	-
JAPAN	183	19	-	107	-	57	-
SOUTH KOREA	59	-	59	-	-	-	-
PAKISTAN	1,099	489	6	-	385	-	219
PHILIPPINES	1	-	1	-	-	-	-
THAILAND	21	21	-	-	-	-	-
NEAR EAST, TOTAL	5,850	626	2,313	1,477	60	2	1,372
GREECE	11	-	11	-	-	-	-
ISRAEL	2,246	3	743	1,477	-	2	21
UNITED ARAB REPUBLIC	3,593	623	1,559	-	60	-	1,351
AFRICA, TOTAL	448	41	7	24	-	-	376
KENYA	41	38	3	-	-	-	-
SUDAN	3	-	3	-	-	-	-
UNION OF SOUTH AFRICA	7	-	-	7	-	-	-
OTHER AFRICA	397	3	1	17	-	-	376
LATIN AMERICA, TOTAL	295	50	48	151	-	46	-
ARGENTINA	192	50	35	107	-	-	-
BRAZIL	1	-	1	-	-	-	-
COLOMBIA	7	-	-	7	-	-	-
MEXICO	37	-	-	37	-	-	-
PANAMA	46	-	-	-	-	46	-
PERU	2	-	2	-	-	-	-
VENEZUELA	10	-	10	-	-	-	-
AUSTRALIA	753	3	105	640	-	5	-
CANADA	4,905	206	898	2,567	-	1,234	-
NEW ZEALAND	49	-	-	49	-	-	-
INTERNATIONAL ORGANIZATIONS	1,196	-	-	1,196	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-94. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1980, 1981, AND 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1980		ESTIMATES			
			1981		1982	
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	211,205	20,928	233,537	30,027	298,023	22,260
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	6,891	4,550	7,088	5,004	7,296	5,754
FOREST SERVICE	216	-	238	-	240	-
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	4,550	4,550	5,004	5,004	5,754	5,754
SCIENCE & EDUCATION ADMINISTRATION	2,125	-	1,846	-	1,302	-
AGRICULTURAL RESEARCH	2,125	-	1,846	-	1,302	-
DEPARTMENT OF COMMERCE, TOTAL	868	491	304	-	30	-
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	377	-	253	-	30	-
OFFICE OF THE SECRETARY	491	491	51	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	56,579	7,800	53,523	8,492	47,659	2,943
DEPARTMENT OF THE ARMY	4,622	-	3,749	-	4,577	-
DEPARTMENT OF THE NAVY	44,220	7,800	39,365	8,492	27,264	2,943
DEPARTMENT OF THE AIR FORCE	6,980	-	8,645	-	9,960	-
DEFENSE AGENCIES	757	-	1,764	-	5,858	-
DEPARTMENT OF EDUCATION, TOTAL	922	607	2,492	2,220	1,595	1,595
DEPARTMENT OF ENERGY	14,178	-	20,694	-	9,095	-
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	27,580	1,159	30,907	6,731	32,919	6,758
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	1,888	110	1,593	351	1,484	310
CENTERS FOR DISEASE CONTROL	629	501	2,355	2,250	2,380	2,275
HEALTH SERVICES ADMINISTRATION	105	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	24,414	180	25,259	2,610	27,452	2,650
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	432	368	1,520	1,520	1,523	1,523
OFFICE OF HUMAN DEVELOPMENT SERVICES	112	-	80	-	80	-
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	56	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	831	831	2,817	2,817	-	-
OFFICE OF THE SECRETARY	831	831	2,817	2,817	-	-
DEPARTMENT OF JUSTICE, TOTAL	-	-	80	-	-	-
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS	-	-	80	-	-	-
DEPARTMENT OF LABOR, TOTAL	6	-	-	-	-	-
LABOR-MANAGEMENT SERVICES ADMINISTRATION	6	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	650	-	-	-	-	-
CUSTOMS SERVICE	650	-	-	-	-	-
OTHER AGENCIES						
ENVIRONMENTAL PROTECTION AGENCY	2,100	28	-	-	1,300	-
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	53,211	-	59,559	-	71,350	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	53,211	-	59,559	-	71,350	-
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	40,659	-	50,200	-	120,000	-
NATIONAL SCIENCE FOUNDATION	1,438	1,013	1,385	1,150	1,299	710
NUCLEAR REGULATORY COMMISSION	787	-	975	-	980	-
SMITHSONIAN INSTITUTION	4,449	4,449	3,613	3,613	4,500	4,500

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-95. FEDERAL OBLIGATIONS FOR BASIC RESEARCH TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1980, 1981, AND 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1980		ESTIMATES			
			1981		1982	
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	28,099	9,947	31,668	12,472	28,202	8,987
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	2,710	2,002	3,022	2,202	3,436	2,589
FOREST SERVICE	209	-	229	-	229	-
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	2,002	2,002	2,202	2,202	2,589	2,589
SCIENCE & EDUCATION ADMINISTRATION	499	-	591	-	618	-
AGRICULTURAL RESEARCH	499	-	591	-	618	-
DEPARTMENT OF COMMERCE, TOTAL	253	253	42	-	-	-
OFFICE OF THE SECRETARY	253	253	42	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	7,476	1,500	8,590	1,698	6,024	-
DEPARTMENT OF THE ARMY	1,779	-	1,823	-	2,167	-
DEPARTMENT OF THE NAVY	3,050	1,500	3,396	1,698	1,533	-
DEPARTMENT OF THE AIR FORCE	2,144	-	2,530	-	2,324	-
DEFENSE AGENCIES	503	-	841	-	-	-
DEPARTMENT OF ENERGY	171	-	140	-	24	-
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	9,540	397	10,786	1,492	11,536	1,493
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	1,079	110	1,103	306	1,110	310
NATIONAL INSTITUTES OF HEALTH	8,152	-	8,497	-	9,238	-
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	309	287	1,186	1,186	1,188	1,183
DEPARTMENT OF THE INTERIOR, TOTAL	831	831	2,817	2,817	-	-
OFFICE OF THE SECRETARY	831	831	2,817	2,817	-	-
DEPARTMENT OF JUSTICE, TOTAL	-	-	80	-	-	-
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS	-	-	80	-	-	-
OTHER AGENCIES						
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	1,729	-	1,693	-	1,693	-
NATIONAL SCIENCE FOUNDATION	940	915	885	650	989	400
SMITHSONIAN INSTITUTION	4,449	4,449	3,613	3,613	4,500	4,500

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-96. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1980, 1981, AND 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1980		ESTIMATES			
			1981		1982	
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	63,048	4,333	77,246	10,361	87,078	9,927
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	3,669	2,230	3,524	2,402	3,382	2,762
FOREST SERVICE	7	-	9	-	11	-
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	2,230	2,230	2,402	2,402	2,762	2,762
SCIENCE & EDUCATION ADMINISTRATION	1,432	-	1,113	-	609	-
AGRICULTURAL RESEARCH	1,432	-	1,113	-	609	-
DEPARTMENT OF COMMERCE, TOTAL	585	208	262	-	30	-
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	377	-	253	-	30	-
OFFICE OF THE SECRETARY	208	208	9	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	3,337	-	4,269	-	9,438	-
DEPARTMENT OF THE ARMY	1,116	-	1,123	-	1,269	-
DEPARTMENT OF THE NAVY	18	-	61	-	-	-
DEPARTMENT OF THE AIR FORCE	1,949	-	2,162	-	2,311	-
DEFENSE AGENCIES	254	-	923	-	5,858	-
DEPARTMENT OF EDUCATION, TOTAL	901	607	2,492	2,220	1,595	1,595
DEPARTMENT OF ENERGY	3,819	-	7,034	-	3,238	-
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	12,272	762	14,128	5,239	14,977	5,260
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	809	-	490	45	374	-
CENTERS FOR DISEASE CONTROL	629	501	2,355	2,250	2,380	2,275
NATIONAL INSTITUTES OF HEALTH	10,609	180	10,869	2,610	11,808	2,650
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	113	81	334	334	335	335
OFFICE OF HUMAN DEVELOPMENT SERVICES	112	-	80	-	80	-
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	56	-	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	6	-	-	-	-	-
LABOR-MANAGEMENT SERVICES ADMINISTRATION	6	-	-	-	-	-
OTHER AGENCIES						
ENVIRONMENTAL PROTECTION AGENCY	2,100	28	-	-	1,300	-
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	34,279	-	43,429	-	51,395	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	34,279	-	43,429	-	51,395	-
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	739	-	633	-	433	-
NATIONAL SCIENCE FOUNDATION	498	498	500	500	310	310
NUCLEAR REGULATORY COMMISSION	787	-	975	-	980	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-97. FEDERAL OBLIGATIONS FOR DEVELOPMENT TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1980, 1981, AND 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1980		ESTIMATES			
			1981		1982	
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	120,058	6,648	124,623	7,194	182,743	3,346
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	512	318	542	400	478	403
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	318	318	400	400	403	403
SCIENCE & EDUCATION ADMINISTRATION	194	-	142	-	75	-
AGRICULTURAL RESEARCH	194	-	142	-	75	-
DEPARTMENT OF COMMERCE, TOTAL	30	30	-	-	-	-
OFFICE OF THE SECRETARY	30	30	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	45,766	6,300	40,664	6,794	32,197	2,943
DEPARTMENT OF THE ARMY	1,727	-	803	-	1,141	-
DEPARTMENT OF THE NAVY	41,152	6,300	35,908	6,794	25,731	2,943
DEPARTMENT OF THE AIR FORCE	2,887	-	3,953	-	5,325	-
DEPARTMENT OF EDUCATION, TOTAL	21	-	-	-	-	-
DEPARTMENT OF ENERGY	10,188	-	13,520	-	5,833	-
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	5,768	-	5,893	-	6,406	-
HEALTH SERVICES ADMINISTRATION	105	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	5,653	-	5,893	-	6,406	-
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	10	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	650	-	-	-	-	-
CUSTOMS SERVICE	650	-	-	-	-	-
OTHER AGENCIES						
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	18,932	-	16,130	-	19,955	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	18,932	-	16,130	-	19,955	-
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	38,191	-	47,874	-	117,874	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-38. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY GEOGRAPHIC DIVISION AND STATE: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION AND STATE	RESEARCH, DEVELOPMENT AND R&D PLANT	RESEARCH AND DEVELOPMENT	R&D PLANT
TOTAL	32,010,320	30,477,266	1,533,054
NEW ENGLAND	2,838,450	2,814,353	24,097
CONNECTICUT	471,320	470,281	1,039
MAINE	25,950	25,936	14
MASSACHUSETTS	2,087,111	2,066,738	20,373
NEW HAMPSHIRE	50,243	50,196	47
RHODE ISLAND	152,554	149,930	2,624
VERMONT	51,272	51,272	-
MIDDLE ATLANTIC	3,447,351	3,259,974	187,377
NEW JERSEY	789,909	729,375	60,534
NEW YORK	1,562,562	1,471,187	91,375
PENNSYLVANIA	1,094,880	1,059,412	35,468
EAST NORTH CENTRAL	2,439,455	2,316,195	123,260
ILLINOIS	671,400	599,900	71,500
INDIANA	163,082	162,432	650
MICHIGAN	385,827	377,525	8,302
OHIO	1,094,940	1,054,661	40,279
WISCONSIN	124,206	121,677	2,529
WEST NORTH CENTRAL	1,672,056	1,618,532	53,524
IOWA	124,633	121,686	2,947
KANSAS	353,606	353,550	56
MINNESOTA	261,940	261,600	340
MISSOURI	842,493	801,571	40,922
NEBRASKA	33,675	31,608	2,067
NORTH DAKOTA	42,718	38,650	4,068
SOUTH DAKOTA	12,991	9,867	3,124
SOUTH ATLANTIC	6,611,482	6,430,243	181,239
DELAWARE	21,452	20,758	694
DISTRICT OF COLUMBIA	821,282	806,995	14,287
FLORIDA	1,370,193	1,323,512	46,681
GEORGIA	170,417	169,794	623
MARYLAND	2,648,291	2,594,960	53,331
NORTH CAROLINA	235,889	227,681	8,208
SOUTH CAROLINA	90,537	87,459	3,078
VIRGINIA	1,088,530	1,047,052	41,478
WEST VIRGINIA	164,891	152,032	12,859
EAST SOUTH CENTRAL	1,627,465	1,492,778	134,687
ALABAMA	600,601	552,691	47,910
KENTUCKY	107,971	107,925	46
MISSISSIPPI	115,906	109,284	6,622
TENNESSEE	802,987	722,878	80,109
WEST SOUTH CENTRAL	1,616,222	1,585,438	30,784
ARKANSAS	30,680	29,955	725
LOUISIANA	282,329	269,752	12,577
OKLAHOMA	97,728	94,479	3,249
TEXAS	1,205,485	1,191,252	14,233
MOUNTAIN	2,852,470	2,568,168	284,302
ARIZONA	336,383	334,616	1,767
COLORADO	609,361	573,730	35,631
IDAHO	192,795	147,675	45,120
MONTANA	49,371	45,664	3,707
NEVADA	236,890	214,471	22,419
NEW MEXICO	1,123,650	954,179	169,471
UTAH	245,844	243,929	1,915
WYOMING	58,176	53,904	4,272
PACIFIC	8,782,580	8,272,797	509,783
ALASKA	42,577	42,527	50
CALIFORNIA	7,515,422	7,138,014	377,408
HAWAII	42,736	42,583	153
OREGON	101,813	97,877	3,936
WASHINGTON	1,080,032	951,796	128,236
OUTLYING AREAS	48,129	45,250	2,879
OFFICES ABROAD	74,660	73,538	1,122

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 95 PERCENT OF TOTAL FEDERAL R&D AND R&D PLANT OBLIGATIONS IN FY 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-29. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY STATE AND PERFORMER: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
TOTAL	30,477,266	7,610,532	14,338,335	1,292,121	4,097,407	1,564,395	908,565	428,557	247,354
CALIFORNIA	7,133,014	900,047	4,642,427	74,811	569,128	630,286	134,747	162,068	24,500
MARYLAND	2,594,960	1,645,053	674,926	31,986	206,326	3,300	28,808	-	4,563
MASSACHUSETTS	2,065,738	183,142	1,066,775	-	426,963	103,211	194,947	82,555	9,145
NEW YORK	1,471,197	124,024	523,616	145,690	426,620	108,207	104,223	-	38,807
FLORIDA	1,323,512	426,017	813,159	-	71,400	-	5,854	-	7,082
TEXAS	1,191,252	263,398	699,274	-	197,783	150	20,323	-	10,324
PENNSYLVANIA	1,059,412	271,991	336,253	166,310	220,071	-	60,654	-	4,133
OHIO	1,054,661	499,732	396,469	9,997	113,396	-	31,731	-	3,356
VIRGINIA	1,047,052	460,995	468,422	-	60,950	13,637	25,314	15,417	2,317
NEW MEXICO	954,179	145,717	120,493	333,440	32,732	304,312	12,823	-	4,662
WASHINGTON	951,796	67,252	546,760	124,398	102,232	-	20,373	93,804	6,967
DISTRICT OF COLUMBIA	836,995	578,632	129,706	-	41,947	-	52,627	-	4,083
MISSOURI	801,571	30,111	673,936	-	79,259	-	12,361	-	5,904
NEW JERSEY	727,375	295,792	312,932	-	53,243	51,736	7,475	-	8,197
TENNESSEE	722,878	64,700	316,742	270,022	54,752	4,988	8,664	-	3,010
ILLINOIS	599,900	51,780	85,168	-	164,933	253,565	39,520	-	4,934
COLORADO	573,730	94,154	264,189	3,698	80,941	26,916	11,209	84,588	8,135
ALABAMA	552,691	353,509	143,294	-	44,814	-	9,064	-	2,011
CONNECTICUT	470,281	15,904	348,982	-	97,940	-	3,606	-	3,849
MICHIGAN	377,525	57,335	178,930	-	112,623	-	20,582	-	8,055
KANSAS	353,550	4,178	316,170	-	28,961	-	978	-	1,363
ARIZONA	334,616	117,403	158,374	-	38,805	14,883	2,152	-	2,999
LOUISIANA	269,752	32,445	198,833	-	34,065	-	1,389	-	3,020
MINNESOTA	261,600	21,522	128,379	-	79,522	-	27,471	-	5,706
UTAH	243,929	39,894	152,419	-	43,534	-	4,193	-	3,889
NORTH CAROLINA	227,681	81,243	20,580	1,995	107,843	-	13,662	-	2,358
NEVADA	214,471	33,977	166,136	2,800	5,132	-	5,428	-	998
GEORGIA	169,794	63,800	31,540	-	62,669	-	5,071	-	6,714
INDIANA	162,432	35,113	49,278	-	74,922	433	1,918	-	768
WEST VIRGINIA	152,032	104,862	18,891	-	12,459	12,960	862	-	1,998
RHODE ISLAND	149,930	95,779	19,254	-	26,983	-	5,628	-	2,287
IDAHO	147,675	8,194	11,566	96,467	4,893	19,791	476	-	6,288
IOWA	121,686	12,292	49,525	-	44,593	13,259	448	-	1,569
WISCONSIN	121,677	17,448	6,065	-	94,137	-	2,082	-	1,945
MISSISSIPPI	109,284	66,688	21,945	-	17,218	-	1,121	-	2,312
KENTUCKY	107,925	18,546	67,064	-	19,695	-	1,131	-	1,489
OREGON	97,977	29,477	8,496	-	44,984	-	8,901	-	6,019
OKLAHOMA	94,479	54,177	13,863	-	19,612	-	4,715	-	2,112
SOUTH CAROLINA	87,459	7,962	26,728	30,125	20,949	-	411	-	1,284
WYOMING	53,904	41,165	1,100	-	7,852	-	486	-	3,301
VERMONT	51,272	11,765	25,476	-	12,307	-	866	-	858
NEW HAMPSHIRE	50,196	13,812	17,523	-	17,377	-	451	-	1,033
MONTANA	45,664	15,315	18,964	-	5,861	-	446	-	5,078
HAWAII	42,583	7,626	5,172	-	26,147	-	2,817	-	821
ALASKA	42,527	21,650	1,971	-	13,628	-	426	-	4,852
NORTH DAKOTA	39,650	22,830	5,283	-	9,675	-	291	-	1,571
NEBRASKA	31,608	7,574	4,118	-	18,203	-	586	-	1,127
ARKANSAS	29,955	14,213	3,406	404	9,071	220	898	125	1,618
MAINE	25,936	3,656	5,375	-	5,323	-	7,286	-	4,296
DELAWARE	20,758	5,801	3,607	-	10,018	-	830	-	502
SOUTH DAKOTA	9,867	2,309	423	-	4,851	-	128	-	2,156
OUTLYING AREAS	45,250	15,941	16,449	-	9,210	2,641	20	-	989
OFFICES ABROAD	73,538	52,592	19,889	-	865	-	192	-	-

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 95 PERCENT OF TOTAL FEDERAL R&D OBLIGATIONS IN FY 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-99A. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO EACH PERFORMER, BY STATE: FISCAL YEAR 1980

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
CALIFORNIA	23.4	11.8	32.4	5.8	13.9	40.3	14.8	37.8	9.9
MARYLAND	3.5	21.6	4.7	2.5	5.0	.2	3.2	-	1.8
MASSACHUSETTS	6.8	2.4	7.4	-	10.4	6.6	21.5	19.3	3.7
NEW YORK	4.8	1.6	3.7	11.3	10.4	6.9	11.5	-	15.7
FLORIDA	4.3	5.6	5.7	-	1.7	-	.6	-	2.9
TEXAS	3.9	3.5	4.9	-	4.8	*	2.2	-	4.2
PENNSYLVANIA	3.5	3.6	2.3	12.9	5.4	-	6.7	-	1.7
OHIO	3.5	6.6	2.8	.8	2.8	-	3.5	-	1.4
VIRGINIA	3.4	6.1	3.3	-	1.5	.9	2.8	3.6	.9
NEW MEXICO	3.1	1.9	.8	25.8	.8	19.5	1.4	-	1.9
WASHINGTON	3.1	.9	3.8	9.6	2.5	-	2.2	19.6	2.8
DISTRICT OF COLUMBIA	2.6	7.6	.9	-	1.0	-	5.8	-	1.7
MISSOURI	2.6	.4	4.7	-	1.9	-	1.4	-	2.4
NEW JERSEY	2.4	3.9	2.2	-	1.3	3.3	.8	-	3.3
TENNESSEE	2.4	.9	2.2	20.9	1.3	.3	1.0	-	1.2
ILLINOIS	2.0	.7	.6	-	4.0	16.2	4.3	-	2.0
COLORADO	1.9	1.2	1.8	.3	2.0	1.7	1.2	19.7	3.3
ALABAMA	1.8	4.6	1.0	-	1.1	-	1.0	-	.8
CONNECTICUT	1.5	.2	2.4	-	2.4	-	.4	-	1.6
MICHIGAN	1.2	.8	1.2	-	2.8	-	2.3	-	3.3
KANSAS	1.2	.1	2.2	-	.7	-	.1	-	.6
ARIZONA	1.1	1.5	1.1	-	.9	1.0	.2	-	1.2
LOUISIANA	.9	.4	1.4	-	.8	-	.2	-	1.2
MINNESOTA	.9	.3	.9	-	1.9	-	3.0	-	2.3
UTAH	.8	.5	1.1	-	1.1	-	.5	-	1.6
NORTH CAROLINA	.7	1.1	.1	.2	2.6	-	1.5	-	1.0
NEVADA	.7	.4	1.2	.2	.1	-	.6	-	.4
GEORGIA	.6	.8	.2	-	1.5	-	.6	-	2.7
INDIANA	.5	.5	.3	-	1.8	*	.2	-	.3
WEST VIRGINIA	.5	1.4	.1	-	.3	.8	.1	-	.8
RHODE ISLAND	.5	1.3	.1	-	.7	-	.6	-	.9
IDAHO	.5	.1	.1	7.5	.1	1.3	.1	-	2.5
IOWA	.4	.2	.3	-	1.1	.8	*	-	.6
WISCONSIN	.4	.2	*	-	2.3	-	.2	-	.8
MISSISSIPPI	.4	.9	.2	-	.4	-	.1	-	.9
KENTUCKY	.4	.2	.5	-	.5	-	.1	-	.6
OREGON	.3	.4	.1	-	1.1	-	1.0	-	2.4
OKLAHOMA	.3	.7	.1	-	.5	-	.5	-	.9
SOUTH CAROLINA	.3	.1	.2	2.3	.5	-	*	-	.5
WYOMING	.2	.5	*	-	.2	-	.1	-	1.3
VERMONT	.2	.2	.2	-	.3	-	.1	-	.3
NEW HAMPSHIRE	.2	.2	.1	-	.4	-	*	-	.4
MONTANA	.1	.2	.1	-	.1	-	*	-	2.1
HAWAII	.1	.1	*	-	.6	-	.3	-	.3
ALASKA	.1	.3	*	-	.3	-	*	-	2.0
NORTH DAKOTA	.1	.3	*	-	.2	-	*	-	.6
NEBRASKA	.1	.1	*	-	.4	-	.1	-	.5
ARKANSAS	.1	.2	*	*	.2	*	.1	*	.7
MAINE	.1	*	*	-	.1	-	.8	-	1.7
DELAWARE	.1	.1	*	-	.2	-	.1	-	.2
SOUTH DAKOTA	*	*	*	-	.1	-	*	-	.9
OUTLYING AREAS	.1	.2	.1	-	.2	.2	*	-	.4
OFFICES ABROAD	.2	.7	.1	-	*	-	*	-	-

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

* PERCENTAGE LESS THAN .05%.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-99B. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO EACH STATE, BY PERFORMER: FISCAL YEAR 1980

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
TOTAL	100.0%	25.0%	47.0%	4.2%	13.4%	5.1%	3.0%	1.4%	0.8%
CALIFORNIA	100.0	12.6	65.0	1.0	8.0	8.9	1.9	2.3	.3
MARYLAND	100.0	63.4	26.0	1.2	8.0	.1	1.1	-	.2
MASSACHUSETTS	100.0	3.9	51.6	-	20.7	5.0	9.4	4.0	.4
NEW YORK	100.0	8.4	35.6	9.9	29.0	7.4	7.1	-	2.6
FLORIDA	100.0	32.2	61.4	-	5.4	-	.4	-	.5
TEXAS	100.0	22.1	58.7	-	16.6	*	1.7	-	.9
PENNSYLVANIA	100.0	25.7	31.7	15.7	20.8	-	5.7	-	.4
OHIO	100.0	47.4	37.6	.9	10.8	-	3.0	-	.3
VIRGINIA	100.0	44.0	44.7	-	5.8	1.3	2.4	1.5	.2
NEW MEXICO	100.0	15.3	12.6	34.9	3.4	31.9	1.3	-	.5
WASHINGTON	100.0	7.1	57.4	13.1	10.7	-	2.1	8.8	.7
DISTRICT OF COLUMBIA	100.0	71.7	16.1	-	5.2	-	6.5	-	.5
MISSOURI	100.0	3.8	84.1	-	9.9	-	1.5	-	.7
NEW JERSEY	100.0	40.6	42.9	-	7.3	7.1	1.0	-	1.1
TENNESSEE	100.0	9.0	43.8	37.4	7.6	.7	1.2	-	.4
ILLINOIS	100.0	8.6	14.2	-	27.5	42.3	6.6	-	.8
COLORADO	100.0	16.4	46.0	.6	14.1	4.7	2.0	14.7	1.4
ALABAMA	100.0	64.0	25.9	-	8.1	-	1.6	-	.4
CONNECTICUT	100.0	3.4	74.2	-	20.8	-	.8	-	.8
MICHIGAN	100.0	15.2	47.4	-	29.8	-	5.5	-	2.1
KANSAS	100.0	1.2	90.0	-	8.2	-	.2	-	.4
ARIZONA	100.0	35.1	47.3	-	11.6	4.4	.6	-	.9
LOUISIANA	100.0	12.0	73.7	-	12.6	-	.5	-	1.1
MINNESOTA	100.0	8.2	49.1	-	30.0	-	10.5	-	2.2
UTAH	100.0	16.4	62.5	-	17.8	-	1.7	-	1.6
NORTH CAROLINA	100.0	35.7	9.0	.9	47.4	-	6.0	-	1.0
NEVADA	100.0	15.8	77.5	1.3	2.4	-	2.5	-	.5
GEORGIA	100.0	37.6	18.6	-	36.9	-	3.0	-	4.0
INDIANA	100.0	21.6	30.3	-	46.1	.3	1.2	-	.5
WEST VIRGINIA	100.0	69.0	12.4	-	8.2	8.5	.6	-	1.3
RHODE ISLAND	100.0	63.9	12.8	-	18.0	-	3.8	-	1.5
IDAHO	100.0	5.5	7.8	65.3	3.3	13.4	.3	-	4.3
IOWA	100.0	10.1	40.7	-	36.6	10.9	.4	-	1.3
WISCONSIN	100.0	14.3	5.0	-	77.4	-	1.7	-	1.6
MISSISSIPPI	100.0	61.0	20.1	-	15.8	-	1.0	-	2.1
KENTUCKY	100.0	17.2	62.1	-	18.2	-	1.0	-	1.4
OREGON	100.0	30.1	8.7	-	46.0	-	9.1	-	6.1
OKLAHOMA	100.0	57.3	14.7	-	20.8	-	5.0	-	2.2
SOUTH CAROLINA	100.0	9.1	30.6	34.4	24.0	-	.5	-	1.5
WYOMING	100.0	76.4	2.0	-	14.6	-	.9	-	6.1
VERMONT	100.0	22.9	49.7	-	24.0	-	1.7	-	1.7
NEW HAMPSHIRE	100.0	27.5	34.9	-	34.6	-	.9	-	2.1
MONTANA	100.0	33.5	41.5	-	12.8	-	1.0	-	11.1
HAWAII	100.0	17.9	12.1	-	61.4	-	6.6	-	1.9
ALASKA	100.0	50.9	4.6	-	32.0	-	1.0	-	11.4
NORTH DAKOTA	100.0	59.1	13.7	-	22.4	-	.8	-	4.1
NEBRASKA	100.0	24.0	13.0	-	57.6	-	1.9	-	3.6
ARKANSAS	100.0	47.4	11.4	1.3	30.3	.7	3.0	.4	5.4
MAINE	100.0	14.1	20.7	-	20.5	-	28.1	-	16.6
DELAWARE	100.0	27.9	17.4	-	49.3	-	4.0	-	2.4
SOUTH DAKOTA	100.0	23.4	4.3	-	49.2	-	1.3	-	21.9
OUTLYING AREAS	100.0	35.2	36.4	-	20.4	5.8	*	-	2.2
OFFICES ABROAD	100.0	71.5	27.0	-	1.2	-	.3	-	-

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

* PERCENTAGE LESS THAN .05%.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-100. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY STATE AND AGENCY: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	DEPT OF AGRI-CULTURE	DEPT OF COM-MERCE	DEPT OF DEFENSE	DEPT OF ENERGY	DEPT OF HEALTH & HUMAN SERVICES	DEPT OF THE INTERI-OR	DEPT OF TRANS-POR-TATION	ENVIRON-MENTAL PROTEC-TION AGENCY	NATIONAL AERO-NAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDA-TION
TOTAL	30,477,266	680,695	341,681	13,924,433	4,739,510	3,752,641	410,427	361,230	342,900	5,043,395	880,354
CALIFORNIA	7,138,014	45,221	14,319	3,762,778	772,311	410,307	41,511	28,934	17,595	1,891,098	153,940
MARYLAND	2,594,960	71,293	98,652	966,468	52,931	857,683	15,298	48,503	22,812	446,047	15,273
MASSACHUSETTS	2,066,738	5,842	13,025	1,448,495	96,019	282,451	14,741	48,353	11,805	70,192	75,815
NEW YORK	1,471,187	19,345	12,541	589,520	288,622	397,740	7,868	5,703	17,633	42,080	90,135
FLORIDA	1,323,512	16,079	19,811	734,411	7,021	40,491	3,437	2,722	6,078	477,998	15,464
TEXAS	1,191,252	28,281	5,145	344,357	86,727	132,169	10,111	27,030	20,588	512,168	24,676
PENNSYLVANIA	1,059,412	21,358	3,428	369,312	305,816	176,422	32,388	6,696	15,234	95,901	32,857
OHIO	1,054,661	10,242	2,035	522,213	158,976	99,477	5,398	15,508	34,449	190,092	16,281
VIRGINIA	1,047,052	5,507	4,068	616,541	31,172	56,839	32,894	28,699	10,028	242,921	18,383
NEW MEXICO	954,179	2,713	158	250,637	644,256	13,246	7,598	2,760	342	27,820	4,649
WASHINGTON	951,796	11,383	24,891	500,656	271,339	84,513	8,282	4,314	2,971	28,007	14,940
DISTRICT OF COLUMBIA	806,995	63,695	17,516	286,632	126,678	97,281	15,550	43,665	16,939	61,217	77,822
MISSOURI	801,571	9,562	1,241	687,188	2,310	69,293	9,541	4,061	5,198	6,302	6,875
NEW JERSEY	725,375	2,750	15,453	517,702	78,523	30,656	3,971	10,888	16,741	34,182	18,509
TENNESSEE	722,878	6,255	411	196,249	450,559	44,178	2,678	946	7,589	10,359	3,654
ILLINOIS	599,900	25,420	3,772	48,422	344,332	104,415	6,776	4,606	6,676	11,107	44,374
COLORADO	573,730	13,984	42,317	134,501	138,861	44,793	39,960	12,669	9,117	91,619	45,909
ALABAMA	552,691	8,361	1,214	232,605	46,504	38,349	6,354	1,703	1,930	214,494	2,187
CONNECTICUT	470,281	3,065	2,344	232,161	17,816	72,543	1,389	7,952	3,112	118,695	11,204
MICHIGAN	377,525	10,129	5,291	171,458	45,330	86,921	7,325	9,030	9,835	9,670	22,536
KANSAS	353,550	6,547	151	314,486	3,489	18,339	1,477	810	249	3,521	4,481
ARIZONA	334,616	11,051	530	173,265	14,135	18,107	7,296	1,608	984	85,950	21,690
LOUISIANA	269,752	30,378	3,574	18,216	9,338	21,505	2,538	1,200	1,786	178,715	1,902
MINNESOTA	261,600	12,387	673	116,468	6,969	78,028	10,667	3,256	7,832	11,215	14,105
UTAH	243,929	7,494	95	112,542	6,762	25,540	12,195	1,582	1,086	70,523	6,110
NORTH CAROLINA	227,581	14,774	6,719	31,397	9,509	106,999	3,975	755	40,359	4,375	9,819
NEVADA	214,471	1,736	57	20,543	175,956	907	8,008	100	5,094	964	1,216
GEORGIA	169,794	27,336	1,553	38,043	6,985	60,632	4,064	2,088	11,490	8,900	8,703
INDIANA	162,432	7,218	310	75,851	8,594	31,470	2,200	8,706	1,215	7,007	19,860
WEST VIRGINIA	152,032	6,340	2,847	17,666	90,360	12,017	5,555	1,314	1,107	150	14,076
RHODE ISLAND	145,930	908	1,888	113,975	3,502	13,255	657	345	2,729	1,427	11,245
IDAHO	147,675	7,930	156	217	130,012	581	5,356	2,572	463	67	321
IOWA	121,586	15,053	88	49,805	14,126	28,443	1,758	550	1,678	4,822	4,363
WISCONSIN	121,577	20,393	1,218	6,164	7,683	55,773	3,835	274	2,857	4,724	18,756
MISSISSIPPI	109,284	20,364	5,721	50,390	2,697	7,390	2,758	1,377	1,559	15,673	655
KENTUCKY	107,925	6,332	198	16,126	64,268	11,985	2,295	303	3,157	1,006	1,785
OREGON	97,977	17,145	3,937	4,625	14,903	27,729	10,889	2,718	3,470	2,514	10,047
OKLAHOMA	94,479	7,349	2,793	4,209	44,902	9,583	2,345	9,317	7,467	3,018	3,095
SOUTH CAROLINA	87,459	7,698	3,098	2,521	55,423	11,171	1,937	227	1,057	644	3,683
WYOMING	53,904	2,531	330	284	39,913	429	6,232	518	2,127	363	1,177
VERMONT	51,272	1,928	1,181	34,994	85	10,609	637	117	793	352	575
NEW HAMPSHIRE	50,196	2,822	1,024	27,757	2,383	8,862	1,483	319	556	1,884	3,106
MONTANA	45,664	9,249	109	5,774	14,100	6,039	7,920	770	831	114	758
HAWAII	42,583	3,798	4,705	7,727	4,968	9,206	2,601	190	638	4,299	4,451
ALASKA	42,527	5,077	5,751	11,597	878	761	11,785	350	885	1,617	3,826
NORTH DAKOTA	38,650	11,689	326	5,085	13,385	1,571	6,263	67	-	-	264
NEBRASKA	31,508	10,722	202	3,323	1,359	7,526	1,890	479	309	179	5,621
ARKANSAS	25,355	5,691	363	1,627	3,460	13,374	1,889	833	1,650	190	878
MAINE	25,936	3,066	1,161	4,097	1,704	7,370	1,676	2,452	1,251	236	2,923
DELAWARE	20,758	2,052	2,115	6,827	1,047	2,403	639	263	1,234	522	3,655
SOUTH DAKOTA	9,367	3,934	77	109	989	1,099	1,990	920	178	311	360
OUTLYING AREAS	45,250	5,348	1,013	27,869	909	3,978	2,647	108	148	58	2,672
OFFICES ABROAD	73,538	-	86	8,548	18,915	193	-	-	-	45,107	689

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 95 PERCENT OF TOTAL FEDERAL R&D OBLIGATIONS IN FY 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-100A. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT OF EACH AGENCY, BY STATE: FISCAL YEAR 1980

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	DEPT OF AGRICUL-TURE	DEPT OF COMMERCE	DEPT OF DEFENSE	DEPT OF ENERGY	DEPT OF HEALTH & HUMAN SERVICES	DEPT OF THE INTERIOR	DEPT OF TRANS-POR-TATION	ENVIRON-MENTAL PROTEC-TION AGENCY	NATIONAL AERO-NAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDA-TION
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
CALIFORNIA	23.4	6.6	4.2	27.0	16.3	10.9	10.1	8.0	5.1	37.5	17.5
MARYLAND	8.5	10.5	28.9	6.9	1.1	22.9	3.7	13.4	6.7	8.8	1.7
MASSACHUSETTS	6.8	.9	3.8	10.4	2.0	7.5	3.6	13.4	3.4	1.4	8.6
NEW YORK	4.8	2.8	3.7	4.2	6.1	10.6	1.9	1.6	5.1	.8	10.2
FLORIDA	4.3	2.4	5.8	5.3	.1	1.1	.9	.9	1.8	9.5	1.8
TEXAS	3.9	4.2	1.5	2.5	1.9	3.5	2.5	7.5	6.0	10.2	2.8
PENNSYLVANIA	3.5	3.1	1.0	2.7	6.5	4.7	7.9	1.9	4.4	1.9	3.7
OHIO	3.5	1.5	.6	3.8	3.4	2.7	1.3	4.3	10.0	3.8	1.8
VIRGINIA	3.4	.8	1.2	4.4	.7	1.5	8.0	7.9	2.9	4.8	2.1
NEW MEXICO	3.1	.4	*	1.8	13.6	.4	1.9	.8	.1	.6	.5
WASHINGTON	3.1	1.7	7.3	3.6	5.7	2.3	2.0	1.2	.9	.6	1.7
DISTRICT OF COLUMBIA	2.6	9.4	5.1	2.1	2.7	2.6	3.8	12.1	4.9	1.2	8.8
MISSOURI	2.6	1.4	.4	4.9	*	1.8	2.3	1.1	1.5	.1	.8
NEW JERSEY	2.4	.4	4.5	3.7	1.7	.8	1.0	3.0	4.9	.7	2.1
TENNESSEE	2.4	.9	.1	1.4	9.5	1.2	.7	.3	2.2	.2	.4
ILLINOIS	2.0	3.7	1.1	.3	7.3	2.8	1.7	1.3	1.9	.2	5.0
COLORADO	1.9	2.1	12.4	1.0	2.9	1.2	9.7	3.5	2.7	1.8	5.2
ALABAMA	1.8	1.2	.4	1.7	1.0	1.0	1.5	.5	.5	4.3	.1
CONNECTICUT	1.5	.5	.7	1.7	.4	1.9	.3	2.2	.9	2.4	1.3
MICHIGAN	1.2	1.5	1.5	1.2	1.0	2.3	1.8	2.5	2.9	.2	2.6
KANSAS	1.2	1.0	*	2.3	.1	.5	.4	.2	.1	.1	.5
ARIZONA	1.1	1.6	.2	1.2	.3	.5	1.8	.4	.3	1.7	2.5
LOUISIANA	.9	4.6	1.0	.1	.2	.6	.6	.3	.5	3.5	.2
MINNESOTA	.9	1.3	.2	.8	.1	2.1	2.6	.9	2.3	.2	1.6
UTAH	.8	1.1	*	.8	.1	.7	3.0	.4	.3	1.4	.7
NORTH CAROLINA	.7	2.2	2.0	.2	.2	2.9	1.0	.2	11.8	.1	1.0
NEVADA	.7	.3	*	.1	3.7	*	2.0	*	1.5	*	.1
GEORGIA	.6	4.0	.5	.3	.1	1.6	1.0	.6	3.4	.2	1.0
INDIANA	.5	1.1	.1	.5	.2	.9	.5	2.4	.4	.1	2.3
WEST VIRGINIA	.5	1.0	.8	.1	1.9	.3	1.4	.4	.3	*	1.6
RHODE ISLAND	.5	.1	.6	.8	.1	.4	.2	.1	.8	*	1.3
IDAHO	.5	1.2	*	*	2.7	*	1.3	.7	.1	*	*
IOWA	.4	2.4	*	.4	.3	.8	.4	.2	.5	.1	.5
WISCONSIN	.4	3.0	.4	*	.2	1.5	.9	.1	.3	.1	2.1
MISSISSIPPI	.4	2.9	1.7	.4	.1	.2	.7	.4	.5	.3	.1
KENTUCKY	.4	1.0	.1	.1	1.4	.3	.6	.1	.9	*	.2
OREGON	.3	2.5	1.2	*	.3	.7	2.7	.9	1.0	*	1.1
OKLAHOMA	.3	1.2	.8	*	.9	.3	.6	2.6	2.2	.1	.4
SOUTH CAROLINA	.3	1.1	.9	*	1.2	.3	.5	.1	.3	*	.4
WYOMING	.2	.4	.1	*	.9	*	1.5	.1	.5	*	.1
VERMONT	.2	.3	.3	.3	*	.3	.2	*	.2	*	.1
NEW HAMPSHIRE	.2	.4	.3	.2	.1	.2	.4	.1	.2	*	.4
MONTANA	.1	1.4	*	*	.3	.2	1.9	.2	.2	*	.1
HAWAII	.1	.6	1.4	.1	.1	.2	.6	.1	.2	.1	.5
ALASKA	.1	.7	1.7	.1	*	*	2.9	.1	.3	*	.4
NORTH DAKOTA	.1	1.7	.1	*	.3	*	1.5	*	-	-	*
NEBRASKA	.1	1.6	.1	*	*	.2	.5	.1	.1	*	.6
ARKANSAS	.1	.8	.1	*	.1	.4	.5	.2	.5	*	.1
MAINE	.1	.5	.3	*	*	.2	.4	.7	.4	*	.3
DELAWARE	.1	.3	.6	*	*	.1	.2	.1	.4	*	.4
SOUTH DAKOTA	*	.6	*	*	*	*	.5	.3	.1	*	*
OUTLYING AREAS	.1	.9	.3	.2	*	.1	.6	*	*	*	.3
OFFICES ABROAD	.2	-	*	.1	.4	*	-	-	-	.9	.1

* PERCENTAGE LESS THAN .05%.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-100B. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT OF EACH STATE, BY AGENCY: FISCAL YEAR 1980

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	DEPT OF AGRICULTURE	DEPT OF COMMERCE	DEPT OF DEFENSE	DEPT OF ENERGY	DEPT OF HEALTH & HUMAN SERVICES	DEPT OF THE INTERIOR	DEPT OF TRANSPORTATION	ENVIRONMENTAL PROTECTION AGENCY	NATIONAL AERONAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDATION
TOTAL	100.0%	2.2%	1.1%	45.7%	15.6%	12.3%	1.3%	1.2%	1.1%	16.5%	2.9%
CALIFORNIA	100.0	.6	.2	52.7	10.8	5.7	.6	.4	.2	26.5	2.2
MARYLAND	100.0	2.7	3.8	37.2	2.0	33.1	.6	1.9	.9	17.2	.6
MASSACHUSETTS	100.0	.3	.6	70.1	4.6	13.7	.7	2.3	.6	3.4	3.7
NEW YORK	100.0	1.3	.9	40.1	19.6	27.0	.5	.4	1.2	2.9	6.1
FLORIDA	100.0	1.2	1.5	55.5	.5	3.1	.3	.2	.5	36.1	1.2
TEXAS	100.0	2.4	.4	28.9	7.3	11.1	.8	2.3	1.7	43.0	2.1
PENNSYLVANIA	100.0	2.0	.3	34.9	28.9	16.7	3.1	.6	1.4	9.1	3.1
OHIO	100.0	1.0	.2	49.5	15.1	9.4	.5	1.5	3.3	18.0	1.5
VIRGINIA	100.0	.5	.4	58.9	3.0	5.4	3.1	2.7	1.0	23.2	1.8
NEW MEXICO	100.0	.3	*	26.3	67.5	1.4	.9	.3	*	2.9	.5
WASHINGTON	100.0	1.2	2.6	52.6	28.5	8.9	.9	.5	.3	2.9	1.6
DISTRICT OF COLUMBIA	100.0	7.9	2.2	35.5	15.7	12.1	1.9	5.4	2.1	7.6	9.6
MISSOURI	100.0	1.2	.2	85.7	.3	8.6	1.2	.5	.6	.8	.9
NEW JERSEY	100.0	.4	2.1	71.0	10.8	4.2	.5	1.5	2.3	4.7	2.5
TENNESSEE	100.0	.9	.1	27.1	62.3	6.1	.4	.1	1.0	1.4	.5
ILLINOIS	100.0	4.2	.6	8.1	57.4	17.4	1.1	.8	1.1	1.9	7.4
COLORADO	100.0	2.4	7.4	23.4	24.2	7.8	7.0	2.2	1.6	16.0	8.0
ALABAMA	100.0	1.5	.2	42.1	8.4	6.9	1.1	.3	.3	38.8	.2
CONNECTICUT	100.0	.7	.5	49.4	3.8	15.4	.3	1.7	.7	25.2	2.4
MICHIGAN	100.0	2.7	1.4	45.4	12.0	23.0	1.9	2.4	2.6	2.6	6.0
KANSAS	100.0	1.9	*	89.0	1.0	5.2	.4	.2	.1	1.0	1.3
ARIZONA	100.0	3.3	.2	51.8	4.2	5.4	2.2	.5	.3	25.7	6.5
LOUISIANA	100.0	11.5	1.3	6.8	3.5	8.0	.9	.4	.7	66.3	.7
MINNESOTA	100.0	4.7	.3	44.5	2.7	29.8	4.1	1.2	3.0	4.3	5.4
UTAH	100.0	3.1	*	46.1	2.9	10.5	5.0	.5	.4	28.9	2.5
NORTH CAROLINA	100.0	6.5	3.0	13.8	4.2	47.0	1.7	.3	17.7	1.9	3.9
NEVADA	100.0	.8	*	9.6	82.0	.4	3.7	*	2.4	.4	.6
GEORGIA	100.0	16.1	.9	22.4	4.1	35.7	2.4	1.2	6.9	5.2	5.1
INDIANA	100.0	4.4	.2	46.7	5.3	19.4	1.4	5.4	.7	4.3	12.2
WEST VIRGINIA	100.0	4.6	1.9	11.6	59.4	7.9	3.7	.9	.7	.1	9.3
RHODE ISLAND	100.0	.6	1.3	76.0	2.3	8.8	.4	.2	1.8	1.0	7.5
IDAHO	100.0	5.4	.1	.1	88.0	.4	3.6	1.7	.3	*	.2
IOWA	100.0	13.2	.1	40.9	11.6	23.4	1.4	.5	1.4	4.0	3.6
WISCONSIN	100.0	16.8	1.0	5.1	6.3	45.8	3.2	.2	2.3	3.9	15.4
MISSISSIPPI	100.0	18.4	5.2	46.1	2.5	6.8	2.5	1.3	1.4	15.3	.6
KENTUCKY	100.0	6.3	.2	14.9	59.5	11.1	2.1	.3	2.9	.9	1.7
OREGON	100.0	17.5	4.0	4.7	15.1	28.3	11.1	2.8	3.5	2.6	10.3
OKLAHOMA	100.0	8.3	3.0	4.5	47.4	10.1	2.5	9.9	7.9	3.2	3.3
SOUTH CAROLINA	100.0	8.8	3.5	2.9	63.4	12.8	2.2	.3	1.2	.7	4.2
WYOMING	100.0	4.7	.6	.5	74.0	.8	11.6	1.0	3.9	.7	2.2
VERMONT	100.0	5.8	2.3	66.3	.2	20.7	1.2	.2	1.5	.7	1.1
NEW HAMPSHIRE	100.0	5.6	2.0	55.3	4.7	17.7	3.0	.6	1.1	3.8	6.2
MONTANA	100.0	20.3	.2	12.6	30.9	13.2	17.3	1.7	1.9	.2	1.7
HAWAII	100.0	8.9	11.0	18.1	11.7	21.6	6.1	.4	1.5	10.1	10.5
ALASKA	100.0	11.9	13.5	27.3	2.1	1.8	27.7	.8	2.1	3.8	9.0
NORTH DAKOTA	100.0	30.2	.8	13.2	34.6	4.1	16.2	.2	-	-	.7
NEBRASKA	100.0	33.9	.6	10.5	4.3	23.8	6.0	1.5	1.0	.6	17.8
ARKANSAS	100.0	19.0	1.2	5.4	11.6	44.6	6.3	2.8	5.5	.6	2.9
MAINE	100.0	11.8	4.5	15.8	6.6	28.4	6.5	9.5	4.8	.9	11.3
DELAWARE	100.0	9.9	10.2	32.9	5.0	11.6	3.1	1.3	5.9	2.5	17.6
SOUTH DAKOTA	100.0	39.9	.8	1.1	10.0	11.1	19.2	9.3	1.8	3.2	3.6
OUTLYING AREAS	100.0	12.9	2.2	61.6	2.0	8.8	5.8	.2	.3	.1	5.9
OFFICES ABROAD	100.0	-	.1	11.6	25.7	.3	-	-	-	61.3	.9

* PERCENTAGE LESS THAN .05%.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
TOTAL									
TOTAL	30,477,266	7,610,532	14,338,335	1,292,121	4,097,407	1,564,395	909,565	428,557	247,354
DEPARTMENT OF AGRICULTURE	680,695	457,178	5,721	-	215,405	-	293	-	1,398
DEPARTMENT OF COMMERCE	341,681	225,506	33,597	-	47,904	491	13,370	163	20,750
DEPARTMENT OF DEFENSE	13,924,433	3,796,486	9,022,449	91,641	495,314	149,141	114,365	254,881	156
DEPARTMENT OF ENERGY	4,739,510	473,598	1,377,006	1,166,157	285,014	1,185,213	58,497	171,635	22,403
DEPARTMENT OF HEALTH & HUMAN SRVCS	3,752,641	820,155	180,925	32,569	2,075,627	11,426	547,557	689	83,593
DEPARTMENT OF THE INTERIOR	410,427	242,071	73,962	-	41,968	307	4,274	322	47,523
DEPARTMENT OF TRANSPORTATION	361,230	113,471	161,778	-	28,200	3,710	15,910	-	38,161
ENVIRONMENTAL PROTECTION AGENCY	342,900	145,104	90,118	-	41,083	-	35,655	-	30,940
NATIONAL AERONAUTICS AND SPACE ADMIN	5,043,395	1,261,850	3,376,474	-	171,173	155,220	76,897	602	1,179
NATIONAL SCIENCE FOUNDATION	880,354	75,113	16,305	1,754	684,919	58,890	41,757	265	1,351
NEW ENGLAND									
TOTAL	2,814,353	324,057	1,483,395	-	586,893	103,211	212,784	92,555	21,468
DEPARTMENT OF AGRICULTURE	17,631	7,894	19	-	9,016	-	14	-	688
DEPARTMENT OF COMMERCE	20,623	8,649	2,616	-	5,874	-	2,010	-	1,474
DEPARTMENT OF DEFENSE	1,861,479	244,282	1,237,921	-	156,332	102,991	37,398	92,555	-
DEPARTMENT OF ENERGY	121,509	1,093	52,827	-	64,512	-	3,048	-	29
DEPARTMENT OF HEALTH & HUMAN SRVCS	395,090	1,988	28,630	-	227,272	-	126,702	-	10,498
DEPARTMENT OF THE INTERIOR	20,583	4,189	12,354	-	2,029	-	52	-	1,959
DEPARTMENT OF TRANSPORTATION	59,538	47,010	7,927	-	1,456	-	-	-	3,145
ENVIRONMENTAL PROTECTION AGENCY	20,245	3,053	5,616	-	3,760	-	4,176	-	3,640
NATIONAL AERONAUTICS AND SPACE ADMIN	192,786	5,802	134,747	-	18,966	220	33,051	-	-
NATIONAL SCIENCE FOUNDATION	104,869	97	728	-	97,676	-	6,333	-	35
CONNECTICUT									
TOTAL	470,291	15,904	348,992	-	97,940	-	3,606	-	3,349
DEPARTMENT OF AGRICULTURE	3,065	1,539	-	-	905	-	-	-	621
DEPARTMENT OF COMMERCE	2,344	1,653	454	-	65	-	-	-	172
DEPARTMENT OF DEFENSE	232,161	7,113	214,623	-	10,405	-	20	-	-
DEPARTMENT OF ENERGY	17,816	-	11,622	-	6,194	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	72,543	-	498	-	67,928	-	3,028	-	1,399
DEPARTMENT OF THE INTERIOR	1,399	653	432	-	110	-	-	-	194
DEPARTMENT OF TRANSPORTATION	7,952	4,711	2,310	-	90	-	-	-	841
ENVIRONMENTAL PROTECTION AGENCY	3,112	-	1,720	-	244	-	226	-	922
NATIONAL AERONAUTICS AND SPACE ADMIN	118,695	235	117,333	-	1,057	-	70	-	-
NATIONAL SCIENCE FOUNDATION	11,204	-	-	-	10,942	-	262	-	-
MAINE									
TOTAL	25,936	3,656	5,375	-	5,323	-	7,286	-	4,296
DEPARTMENT OF AGRICULTURE	3,066	1,191	7	-	1,801	-	-	-	67
DEPARTMENT OF COMMERCE	1,161	-	726	-	162	-	100	-	173
DEPARTMENT OF DEFENSE	4,097	1,578	2,458	-	61	-	-	-	-
DEPARTMENT OF ENERGY	1,704	-	1,396	-	-	-	303	-	5
DEPARTMENT OF HEALTH & HUMAN SRVCS	7,370	-	40	-	363	-	5,790	-	1,177
DEPARTMENT OF THE INTERIOR	1,676	752	46	-	150	-	-	-	729
DEPARTMENT OF TRANSPORTATION	2,452	98	702	-	13	-	-	-	1,639
ENVIRONMENTAL PROTECTION AGENCY	1,251	-	-	-	149	-	630	-	472
NATIONAL AERONAUTICS AND SPACE ADMIN	236	37	-	-	-	-	199	-	-
NATIONAL SCIENCE FOUNDATION	2,923	-	-	-	2,624	-	264	-	35
MASSACHUSETTS									
TOTAL	2,066,738	183,142	1,066,775	-	426,963	103,211	194,947	92,555	9,145
DEPARTMENT OF AGRICULTURE	5,842	2,995	12	-	2,821	-	14	-	-
DEPARTMENT OF COMMERCE	13,025	5,853	1,430	-	3,172	-	1,588	-	982
DEPARTMENT OF DEFENSE	1,448,495	120,059	962,151	-	143,372	102,991	37,357	92,555	-
DEPARTMENT OF ENERGY	96,019	943	37,882	-	54,522	-	2,652	-	20
DEPARTMENT OF HEALTH & HUMAN SRVCS	232,451	1,988	28,006	-	133,386	-	112,607	-	6,454
DEPARTMENT OF THE INTERIOR	14,741	1,763	11,596	-	1,125	-	52	-	215
DEPARTMENT OF TRANSPORTATION	48,353	42,120	4,730	-	1,143	-	-	-	360
ENVIRONMENTAL PROTECTION AGENCY	11,805	1,953	3,896	-	2,235	-	2,617	-	1,104
NATIONAL AERONAUTICS AND SPACE ADMIN	70,192	5,371	16,379	-	15,538	220	32,634	-	
NATIONAL SCIENCE FOUNDATION	75,815	97	703	-	69,599	-	5,416	-	-
NEW HAMPSHIRE									
TOTAL	30,196	13,812	17,523	-	17,377	-	451	-	1,033
DEPARTMENT OF AGRICULTURE	2,922	1,628	-	-	1,294	-	-	-	-
DEPARTMENT OF COMMERCE	1,024	-	-	-	737	-	207	-	80
DEPARTMENT OF DEFENSE	27,757	11,263	15,932	-	562	-	-	-	-
DEPARTMENT OF ENERGY	2,393	150	995	-	1,234	-	-	-	4
DEPARTMENT OF HEALTH & HUMAN SRVCS	8,962	-	16	-	8,702	-	-	-	144
DEPARTMENT OF THE INTERIOR	1,483	712	290	-	148	-	-	-	333
DEPARTMENT OF TRANSPORTATION	319	-	46	-	149	-	-	-	124
ENVIRONMENTAL PROTECTION AGENCY	556	-	-	-	80	-	128	-	348
NATIONAL AERONAUTICS AND SPACE ADMIN	1,984	159	244	-	1,426	-	55	-	-
NATIONAL SCIENCE FOUNDATION	3,106	-	-	-	3,045	-	61	-	-

CONTINUED ON NEXT PAGE

TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY, GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
RHODE ISLAND									
TOTAL	149,930	95,778	19,254	-	26,983	-	5,628	-	2,287
DEPARTMENT OF AGRICULTURE	908	-	-	-	908	-	-	-	-
DEPARTMENT OF COMMERCE	1,888	99	2	-	1,738	-	-	-	49
DEPARTMENT OF DEFENSE	113,975	94,453	17,670	-	1,841	-	11	-	-
DEPARTMENT OF ENERGY	3,502	-	899	-	2,510	-	93	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	13,255	-	-	-	6,916	-	4,875	-	1,464
DEPARTMENT OF THE INTERIOR	657	111	-	-	349	-	-	-	197
DEPARTMENT OF TRANSPORTATION	345	15	134	-	61	-	-	-	135
ENVIRONMENTAL PROTECTION AGENCY	2,728	1,100	-	-	960	-	226	-	442
NATIONAL AERONAUTICS AND SPACE ADMIN	1,427	-	549	-	785	-	93	-	-
NATIONAL SCIENCE FOUNDATION	11,245	-	-	-	10,915	-	330	-	-
VERMONT									
TOTAL	51,272	11,765	25,476	-	12,307	-	866	-	858
DEPARTMENT OF AGRICULTURE	1,928	641	-	-	1,287	-	-	-	-
DEPARTMENT OF COMMERCE	1,181	1,044	4	-	-	-	115	-	18
DEPARTMENT OF DEFENSE	34,994	9,816	25,087	-	91	-	-	-	-
DEPARTMENT OF ENERGY	85	-	33	-	52	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	10,609	-	80	-	9,977	-	402	-	150
DEPARTMENT OF THE INTERIOR	637	198	-	-	147	-	-	-	292
DEPARTMENT OF TRANSPORTATION	117	66	5	-	-	-	-	-	46
ENVIRONMENTAL PROTECTION AGENCY	793	-	-	-	92	-	349	-	352
NATIONAL AERONAUTICS AND SPACE ADMIN	352	-	242	-	110	-	-	-	-
NATIONAL SCIENCE FOUNDATION	576	-	25	-	551	-	-	-	-
MIDDLE ATLANTIC									
TOTAL	3,259,974	691,807	1,172,801	312,000	699,934	159,943	172,352	-	51,137
DEPARTMENT OF AGRICULTURE	43,453	26,393	445	-	16,434	-	152	-	29
DEPARTMENT OF COMMERCE	31,422	13,595	8,161	-	3,319	51	3,287	-	3,009
DEPARTMENT OF DEFENSE	1,476,534	517,993	801,807	86,429	63,065	-	7,240	-	-
DEPARTMENT OF ENERGY	672,961	83,703	155,906	225,571	46,595	157,046	1,383	-	2,757
DEPARTMENT OF HEALTH & HUMAN SRVCS	604,818	1,461	9,634	-	416,339	2,577	139,987	-	34,820
DEPARTMENT OF THE INTERIOR	44,227	21,341	15,976	-	3,461	-	636	-	2,813
DEPARTMENT OF TRANSPORTATION	23,287	10,183	7,496	-	2,649	-	186	-	2,773
ENVIRONMENTAL PROTECTION AGENCY	49,608	11,590	24,357	-	3,022	-	6,009	-	4,630
NATIONAL AERONAUTICS AND SPACE ADMIN	172,163	5,441	145,355	-	16,448	-	4,813	-	105
NATIONAL SCIENCE FOUNDATION	141,501	107	3,664	-	128,602	269	8,659	-	200
NEW JERSEY									
TOTAL	729,375	295,792	312,932	-	53,243	51,736	7,475	-	8,197
DEPARTMENT OF AGRICULTURE	2,750	253	10	-	2,466	-	-	-	21
DEPARTMENT OF COMMERCE	15,453	11,140	652	-	1,558	-	309	-	1,794
DEPARTMENT OF DEFENSE	517,702	269,738	244,598	-	3,191	-	185	-	-
DEPARTMENT OF ENERGY	78,523	-	20,859	-	4,443	51,736	125	-	1,360
DEPARTMENT OF HEALTH & HUMAN SRVCS	30,656	-	2,390	-	22,152	-	3,221	-	2,893
DEPARTMENT OF THE INTERIOR	3,971	1,459	1,910	-	323	-	-	-	279
DEPARTMENT OF TRANSPORTATION	10,888	8,951	1,453	-	361	-	-	-	123
ENVIRONMENTAL PROTECTION AGENCY	16,741	3,839	8,822	-	281	-	2,072	-	1,727
NATIONAL AERONAUTICS AND SPACE ADMIN	34,182	412	31,093	-	2,635	-	42	-	-
NATIONAL SCIENCE FOUNDATION	18,509	-	1,155	-	15,833	-	1,521	-	-
NEW YORK									
TOTAL	1,471,187	124,024	523,616	145,690	426,620	108,207	104,223	-	38,807
DEPARTMENT OF AGRICULTURE	19,345	11,355	217	-	7,613	-	152	-	8
DEPARTMENT OF COMMERCE	12,541	1,396	6,740	-	1,537	51	1,968	-	849
DEPARTMENT OF DEFENSE	589,520	88,653	432,055	46,436	16,003	-	6,373	-	-
DEPARTMENT OF ENERGY	288,622	9,017	44,059	99,254	29,031	105,310	849	-	1,103
DEPARTMENT OF HEALTH & HUMAN SRVCS	397,740	1,210	4,270	-	276,155	2,577	83,194	-	30,334
DEPARTMENT OF THE INTERIOR	7,869	3,534	855	-	1,716	-	-	-	1,763
DEPARTMENT OF TRANSPORTATION	5,703	683	1,166	-	1,223	-	-	-	2,531
ENVIRONMENTAL PROTECTION AGENCY	17,633	3,451	8,368	-	1,709	-	2,292	-	1,813
NATIONAL AERONAUTICS AND SPACE ADMIN	42,080	4,676	24,052	-	9,106	-	4,140	-	105
NATIONAL SCIENCE FOUNDATION	90,135	49	1,834	-	82,527	269	5,256	-	200
PENNSYLVANIA									
TOTAL	1,059,412	271,891	336,253	166,310	220,071	-	60,554	-	4,133
DEPARTMENT OF AGRICULTURE	21,358	14,785	219	-	6,355	-	-	-	-
DEPARTMENT OF COMMERCE	3,429	1,059	769	-	224	-	1,010	-	366
DEPARTMENT OF DEFENSE	369,312	159,602	125,144	39,993	43,871	-	682	-	-
DEPARTMENT OF ENERGY	335,816	74,686	90,998	126,317	13,121	-	410	-	284
DEPARTMENT OF HEALTH & HUMAN SRVCS	176,422	251	2,974	-	118,032	-	53,572	-	1,593
DEPARTMENT OF THE INTERIOR	32,398	16,348	13,211	-	1,422	-	636	-	771
DEPARTMENT OF TRANSPORTATION	6,696	549	4,877	-	1,065	-	186	-	19
ENVIRONMENTAL PROTECTION AGENCY	15,234	4,300	7,167	-	1,032	-	1,645	-	1,090
NATIONAL AERONAUTICS AND SPACE ADMIN	95,901	353	90,210	-	4,707	-	631	-	-
NATIONAL SCIENCE FOUNDATION	32,957	58	675	-	30,242	-	1,982	-	-

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TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

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GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
EAST NORTH CENTRAL									
TOTAL	2,316,195	661,408	715,910	9,987	550,001	253,998	95,833	-	19,059
DEPARTMENT OF AGRICULTURE	73,402	44,118	479	-	28,706	-	-	-	99
DEPARTMENT OF COMMERCE	12,626	2,948	1,507	-	3,847	-	2,130	-	2,194
DEPARTMENT OF DEFENSE	824,109	365,019	410,437	-	39,653	5	8,994	-	-
DEPARTMENT OF ENERGY	564,915	60,188	187,396	9,987	35,288	253,656	17,550	-	850
DEPARTMENT OF HEALTH & HUMAN SRVCS	387,156	20,914	14,037	-	297,004	254	49,506	-	5,441
DEPARTMENT OF THE INTERIOR	25,536	12,993	4,346	-	3,897	7	124	-	4,167
DEPARTMENT OF TRANSPORTATION	38,124	11,576	11,056	-	12,577	-	321	-	2,594
ENVIRONMENTAL PROTECTION AGENCY	55,033	24,446	16,346	-	6,488	-	4,120	-	3,633
NATIONAL AERONAUTICS AND SPACE ADMIN	222,590	119,102	70,089	-	25,142	-	8,197	-	60
NATIONAL SCIENCE FOUNDATION	121,807	104	217	-	118,399	76	2,991	-	20
ILLINOIS									
TOTAL	597,900	51,780	85,168	-	164,933	253,565	37,520	-	4,934
DEPARTMENT OF AGRICULTURE	25,420	18,128	330	-	6,962	-	-	-	-
DEPARTMENT OF COMMERCE	3,772	63	835	-	832	-	1,577	-	465
DEPARTMENT OF DEFENSE	48,422	20,287	17,372	-	9,273	5	1,485	-	-
DEPARTMENT OF ENERGY	344,332	7,981	56,181	-	11,131	253,223	15,203	-	613
DEPARTMENT OF HEALTH & HUMAN SRVCS	113,515	109	550	-	95,802	254	15,936	-	864
DEPARTMENT OF THE INTERIOR	6,776	2,796	1,683	-	1,315	7	-	-	975
DEPARTMENT OF TRANSPORTATION	4,606	114	2,734	-	747	-	70	-	941
ENVIRONMENTAL PROTECTION AGENCY	6,676	1,756	2,214	-	1,392	-	238	-	1,076
NATIONAL AERONAUTICS AND SPACE ADMIN	11,107	505	3,154	-	6,422	-	1,026	-	-
NATIONAL SCIENCE FOUNDATION	44,374	41	115	-	42,057	76	2,085	-	-
INDIANA									
TOTAL	162,432	35,113	49,278	-	74,922	433	1,918	-	768
DEPARTMENT OF AGRICULTURE	7,218	2,312	32	-	4,874	-	-	-	-
DEPARTMENT OF COMMERCE	310	-	155	-	-	-	85	-	70
DEPARTMENT OF DEFENSE	75,851	29,705	43,776	-	2,315	-	55	-	-
DEPARTMENT OF ENERGY	8,594	583	597	-	6,891	433	90	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	31,470	-	1,977	-	28,263	-	1,020	-	210
DEPARTMENT OF THE INTERIOR	2,200	1,138	-	-	849	-	-	-	213
DEPARTMENT OF TRANSPORTATION	8,706	364	440	-	7,705	-	-	-	197
ENVIRONMENTAL PROTECTION AGENCY	1,216	-	653	-	317	-	168	-	78
NATIONAL AERONAUTICS AND SPACE ADMIN	7,007	996	1,648	-	3,863	-	500	-	-
NATIONAL SCIENCE FOUNDATION	19,860	15	-	-	19,845	-	-	-	-
MICHIGAN									
TOTAL	377,525	57,335	178,930	-	112,523	-	20,542	-	8,055
DEPARTMENT OF AGRICULTURE	10,129	4,232	41	-	5,856	-	-	-	-
DEPARTMENT OF COMMERCE	5,291	2,885	294	-	1,426	-	172	-	514
DEPARTMENT OF DEFENSE	171,459	44,798	119,031	-	5,229	-	2,400	-	-
DEPARTMENT OF ENERGY	45,330	-	39,350	-	5,916	-	64	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	86,921	34	7,233	-	61,825	-	13,855	-	3,974
DEPARTMENT OF THE INTERIOR	7,325	5,024	41	-	814	-	-	-	1,445
DEPARTMENT OF TRANSPORTATION	9,030	81	4,933	-	2,842	-	-	-	1,174
ENVIRONMENTAL PROTECTION AGENCY	9,835	-	5,848	-	1,668	-	1,372	-	947
NATIONAL AERONAUTICS AND SPACE ADMIN	9,670	251	2,134	-	4,861	-	2,424	-	-
NATIONAL SCIENCE FOUNDATION	22,536	30	25	-	22,186	-	295	-	-
OHIO									
TOTAL	1,054,661	499,732	396,469	9,987	113,386	-	31,731	-	3,356
DEPARTMENT OF AGRICULTURE	10,242	4,059	46	-	6,067	-	-	-	70
DEPARTMENT OF COMMERCE	2,035	-	158	-	541	-	259	-	1,077
DEPARTMENT OF DEFENSE	522,213	270,097	227,837	-	19,225	-	5,054	-	-
DEPARTMENT OF ENERGY	158,976	51,624	91,248	9,987	3,924	-	2,193	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	99,477	20,771	2,899	-	58,455	-	17,137	-	215
DEPARTMENT OF THE INTERIOR	5,399	2,118	1,802	-	588	-	99	-	792
DEPARTMENT OF TRANSPORTATION	15,508	11,017	2,874	-	1,227	-	251	-	139
ENVIRONMENTAL PROTECTION AGENCY	34,449	22,690	6,873	-	2,009	-	1,893	-	984
NATIONAL AERONAUTICS AND SPACE ADMIN	190,092	117,347	62,680	-	5,748	-	4,247	-	60
NATIONAL SCIENCE FOUNDATION	16,281	9	52	-	15,602	-	598	-	20
WISCONSIN									
TOTAL	121,677	17,448	6,065	-	94,137	-	2,082	-	1,945
DEPARTMENT OF AGRICULTURE	20,393	15,387	30	-	4,947	-	-	-	29
DEPARTMENT OF COMMERCE	1,218	-	65	-	1,048	-	37	-	68
DEPARTMENT OF DEFENSE	6,164	132	2,421	-	3,611	-	-	-	-
DEPARTMENT OF ENERGY	7,683	-	20	-	7,426	-	-	-	237
DEPARTMENT OF HEALTH & HUMAN SRVCS	55,773	-	1,378	-	52,659	-	1,558	-	178
DEPARTMENT OF THE INTERIOR	3,835	1,917	820	-	331	-	25	-	742
DEPARTMENT OF TRANSPORTATION	274	-	75	-	56	-	-	-	143
ENVIRONMENTAL PROTECTION AGENCY	2,857	-	758	-	1,102	-	449	-	548
NATIONAL AERONAUTICS AND SPACE ADMIN	4,724	3	473	-	4,248	-	-	-	-
NATIONAL SCIENCE FOUNDATION	18,756	9	25	-	18,709	-	13	-	-

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TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
WEST NORTH CENTRAL									
TOTAL	1,618,532	100,816	1,179,834	-	263,064	13,259	42,163	-	19,396
DEPARTMENT OF AGRICULTURE	70,894	41,126	667	-	29,101	-	-	-	-
DEPARTMENT OF COMMERCE	2,758	339	293	-	1,081	-	95	-	950
DEPARTMENT OF DEFENSE	1,176,464	20,681	1,149,924	-	5,688	-	171	-	-
DEPARTMENT OF ENERGY	42,626	11,758	8,195	-	8,434	12,842	135	-	1,262
DEPARTMENT OF HEALTH & HUMAN SRVCS	204,299	118	1,069	-	164,740	-	36,041	-	2,331
DEPARTMENT OF THE INTERIOR	33,486	19,963	2,358	-	5,517	-	62	-	5,586
DEPARTMENT OF TRANSPORTATION	10,143	-	2,025	-	359	-	1,115	-	6,644
ENVIRONMENTAL PROTECTION AGENCY	15,444	2,674	3,890	-	3,040	-	3,217	-	2,623
NATIONAL AERONAUTICS AND SPACE ADMIN	26,349	4,123	11,410	-	10,238	417	161	-	-
NATIONAL SCIENCE FOUNDATION	36,069	34	3	-	34,866	-	1,166	-	-
IOWA									
TOTAL	121,686	12,292	49,525	-	44,593	13,259	448	-	1,569
DEPARTMENT OF AGRICULTURE	16,053	10,212	195	-	5,646	-	-	-	-
DEPARTMENT OF COMMERCE	88	-	20	-	50	-	-	-	18
DEPARTMENT OF DEFENSE	49,805	1,371	47,195	-	1,239	-	-	-	-
DEPARTMENT OF ENERGY	14,126	-	711	-	566	12,842	-	-	7
DEPARTMENT OF HEALTH & HUMAN SRVCS	28,443	-	379	-	27,783	-	181	-	100
DEPARTMENT OF THE INTERIOR	1,758	678	229	-	247	-	-	-	604
DEPARTMENT OF TRANSPORTATION	550	-	155	-	13	-	-	-	382
ENVIRONMENTAL PROTECTION AGENCY	1,679	-	355	-	598	-	267	-	459
NATIONAL AERONAUTICS AND SPACE ADMIN	4,822	22	286	-	4,097	417	-	-	-
NATIONAL SCIENCE FOUNDATION	4,363	9	-	-	4,354	-	-	-	-
KANSAS									
TOTAL	353,550	4,178	318,170	-	28,961	-	878	-	1,363
DEPARTMENT OF AGRICULTURE	6,547	3,174	46	-	3,327	-	-	-	-
DEPARTMENT OF COMMERCE	151	-	21	-	112	-	-	-	18
DEPARTMENT OF DEFENSE	314,486	387	313,228	-	871	-	-	-	-
DEPARTMENT OF ENERGY	3,489	-	2,526	-	821	-	135	-	7
DEPARTMENT OF HEALTH & HUMAN SRVCS	18,339	-	-	-	17,525	-	531	-	283
DEPARTMENT OF THE INTERIOR	1,477	612	250	-	129	-	-	-	486
DEPARTMENT OF TRANSPORTATION	810	-	268	-	110	-	-	-	432
ENVIRONMENTAL PROTECTION AGENCY	249	-	-	-	-	-	112	-	137
NATIONAL AERONAUTICS AND SPACE ADMIN	3,521	-	1,828	-	1,693	-	-	-	-
NATIONAL SCIENCE FOUNDATION	4,481	5	3	-	4,373	-	100	-	-
MINNESOTA									
TOTAL	261,600	21,522	128,379	-	78,522	-	27,471	-	5,706
DEPARTMENT OF AGRICULTURE	12,387	6,939	54	-	5,394	-	-	-	-
DEPARTMENT OF COMMERCE	673	1	97	-	324	-	-	-	251
DEPARTMENT OF DEFENSE	116,468	144	115,023	-	1,301	-	-	-	-
DEPARTMENT OF ENERGY	6,969	-	3,456	-	3,046	-	-	-	467
DEPARTMENT OF HEALTH & HUMAN SRVCS	78,028	-	329	-	51,139	-	25,927	-	633
DEPARTMENT OF THE INTERIOR	10,667	8,404	596	-	563	-	-	-	1,104
DEPARTMENT OF TRANSPORTATION	3,256	-	1,138	-	76	-	-	-	2,042
ENVIRONMENTAL PROTECTION AGENCY	7,832	2,674	1,638	-	1,163	-	1,148	-	1,209
NATIONAL AERONAUTICS AND SPACE ADMIN	11,215	3,340	6,048	-	1,827	-	-	-	-
NATIONAL SCIENCE FOUNDATION	14,105	20	-	-	13,689	-	396	-	-
MISSOURI									
TOTAL	801,571	30,111	673,936	-	79,259	-	12,361	-	5,904
DEPARTMENT OF AGRICULTURE	9,562	3,427	48	-	6,087	-	-	-	-
DEPARTMENT OF COMMERCE	1,241	338	155	-	352	-	50	-	345
DEPARTMENT OF DEFENSE	687,198	18,765	666,257	-	1,992	-	164	-	-
DEPARTMENT OF ENERGY	2,310	-	805	-	1,498	-	-	-	7
DEPARTMENT OF HEALTH & HUMAN SRVCS	69,293	117	361	-	58,907	-	8,768	-	1,140
DEPARTMENT OF THE INTERIOR	9,541	6,741	748	-	795	-	52	-	1,205
DEPARTMENT OF TRANSPORTATION	4,061	-	407	-	26	-	1,115	-	2,513
ENVIRONMENTAL PROTECTION AGENCY	5,138	-	1,897	-	1,131	-	1,477	-	633
NATIONAL AERONAUTICS AND SPACE ADMIN	6,302	723	3,248	-	2,170	-	161	-	-
NATIONAL SCIENCE FOUNDATION	6,875	-	-	-	6,311	-	564	-	-
NEBRASKA									
TOTAL	31,608	7,574	4,118	-	18,203	-	586	-	1,127
DEPARTMENT OF AGRICULTURE	10,722	7,071	122	-	3,529	-	-	-	-
DEPARTMENT OF COMMERCE	202	-	-	-	189	-	-	-	13
DEPARTMENT OF DEFENSE	3,323	4	3,097	-	225	-	7	-	-
DEPARTMENT OF ENERGY	1,358	-	362	-	996	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	7,526	-	-	-	7,138	-	388	-	-
DEPARTMENT OF THE INTERIOR	1,890	498	508	-	202	-	-	-	682
DEPARTMENT OF TRANSPORTATION	479	-	39	-	89	-	-	-	351
ENVIRONMENTAL PROTECTION AGENCY	309	-	-	-	148	-	85	-	76
NATIONAL AERONAUTICS AND SPACE ADMIN	178	1	-	-	177	-	-	-	-
NATIONAL SCIENCE FOUNDATION	5,621	-	-	-	5,515	-	106	-	-

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TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
NORTH DAKOTA									
TOTAL	38,650	22,830	5,283	-	8,675	-	291	-	1,571
DEPARTMENT OF AGRICULTURE	11,689	8,718	170	-	2,801	-	-	-	-
DEPARTMENT OF COMMERCE	326	-	-	-	-	-	45	-	281
DEPARTMENT OF DEFENSE	5,085	6	5,079	-	-	-	-	-	-
DEPARTMENT OF ENERGY	13,385	11,758	-	-	1,465	-	-	-	162
DEPARTMENT OF HEALTH & HUMAN SRVCS	1,571	1	-	-	1,229	-	246	-	95
DEPARTMENT OF THE INTERIOR	6,263	2,347	27	-	2,886	-	-	-	1,003
DEPARTMENT OF TRANSPORTATION	67	-	7	-	30	-	-	-	30
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	-	-	-	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	264	-	-	-	264	-	-	-	-
SOUTH DAKOTA									
TOTAL	9,867	2,309	423	-	4,851	-	128	-	2,156
DEPARTMENT OF AGRICULTURE	3,934	1,585	32	-	2,317	-	-	-	-
DEPARTMENT OF COMMERCE	77	-	-	-	59	-	-	-	18
DEPARTMENT OF DEFENSE	109	4	45	-	60	-	-	-	-
DEPARTMENT OF ENERGY	989	-	335	-	42	-	-	-	612
DEPARTMENT OF HEALTH & HUMAN SRVCS	1,099	-	-	-	1,019	-	-	-	80
DEPARTMENT OF THE INTERIOR	1,890	683	-	-	705	-	-	-	502
DEPARTMENT OF TRANSPORTATION	920	-	11	-	15	-	-	-	894
ENVIRONMENTAL PROTECTION AGENCY	178	-	-	-	-	-	128	-	50
NATIONAL AERONAUTICS AND SPACE ADMIN	311	37	-	-	274	-	-	-	-
NATIONAL SCIENCE FOUNDATION	360	-	-	-	360	-	-	-	-
SOUTH ATLANTIC									
TOTAL	6,430,243	3,374,365	2,187,559	64,104	594,561	29,897	133,439	15,417	30,901
DEPARTMENT OF AGRICULTURE	215,374	169,907	2,162	-	43,211	-	4	-	90
DEPARTMENT OF COMMERCE	156,379	124,855	9,944	-	12,385	-	4,247	-	4,948
DEPARTMENT OF DEFENSE	2,700,506	1,333,904	1,203,627	-	115,953	13,637	17,968	15,417	-
DEPARTMENT OF ENERGY	331,126	178,295	118,317	32,120	30,957	-	17,781	-	3,656
DEPARTMENT OF HEALTH & HUMAN SRVCS	1,245,516	771,238	104,212	31,984	291,159	-	40,546	-	6,377
DEPARTMENT OF THE INTERIOR	83,349	58,365	13,258	-	5,277	-	2,356	-	4,093
DEPARTMENT OF TRANSPORTATION	128,236	28,477	77,948	-	3,077	3,300	10,884	-	4,550
ENVIRONMENTAL PROTECTION AGENCY	111,104	74,615	15,423	-	8,954	-	6,155	-	5,957
NATIONAL AERONAUTICS AND SPACE ADMIN	1,242,774	562,136	639,276	-	20,954	-	19,732	-	676
NATIONAL SCIENCE FOUNDATION	165,879	72,573	3,392	-	62,634	12,960	13,766	-	554
DELAWARE									
TOTAL	20,758	5,801	3,607	-	10,018	-	830	-	502
DEPARTMENT OF AGRICULTURE	2,052	612	12	-	1,428	-	-	-	-
DEPARTMENT OF COMMERCE	2,115	745	122	-	1,223	-	-	-	25
DEPARTMENT OF DEFENSE	6,827	4,360	1,903	-	564	-	-	-	-
DEPARTMENT OF ENERGY	1,047	-	22	-	797	-	-	-	228
DEPARTMENT OF HEALTH & HUMAN SRVCS	2,403	-	-	-	1,851	-	552	-	-
DEPARTMENT OF THE INTERIOR	639	80	155	-	279	-	-	-	125
DEPARTMENT OF TRANSPORTATION	263	-	247	-	-	-	-	-	16
ENVIRONMENTAL PROTECTION AGENCY	1,234	-	816	-	125	-	185	-	108
NATIONAL AERONAUTICS AND SPACE ADMIN	522	4	330	-	188	-	-	-	-
NATIONAL SCIENCE FOUNDATION	3,656	-	-	-	3,563	-	93	-	-
DISTRICT OF COLUMBIA									
TOTAL	806,995	578,632	129,706	-	41,947	-	52,627	-	4,083
DEPARTMENT OF AGRICULTURE	63,695	59,930	446	-	3,319	-	-	-	-
DEPARTMENT OF COMMERCE	17,516	10,862	1,978	-	389	-	1,845	-	2,442
DEPARTMENT OF DEFENSE	286,632	236,199	43,224	-	5,103	-	2,106	-	-
DEPARTMENT OF ENERGY	126,678	73,372	42,184	-	3,641	-	7,164	-	317
DEPARTMENT OF HEALTH & HUMAN SRVCS	97,281	42,836	16,014	-	22,134	-	16,020	-	277
DEPARTMENT OF THE INTERIOR	15,550	12,703	756	-	160	-	1,931	-	-
DEPARTMENT OF TRANSPORTATION	43,665	18,992	22,152	-	87	-	1,516	-	918
ENVIRONMENTAL PROTECTION AGENCY	16,939	14,564	678	-	936	-	686	-	75
NATIONAL AERONAUTICS AND SPACE ADMIN	61,217	48,214	1,117	-	2,754	-	9,132	-	-
NATIONAL SCIENCE FOUNDATION	77,822	60,960	1,157	-	3,424	-	12,227	-	54
FLORIDA									
TOTAL	1,323,512	426,017	813,159	-	71,400	-	5,854	-	7,082
DEPARTMENT OF AGRICULTURE	16,079	11,222	167	-	4,690	-	-	-	-
DEPARTMENT OF COMMERCE	19,811	14,939	746	-	2,399	-	347	-	1,380
DEPARTMENT OF DEFENSE	734,411	239,296	485,904	-	8,223	-	988	-	-
DEPARTMENT OF ENERGY	7,021	-	3,002	-	3,160	-	-	-	859
DEPARTMENT OF HEALTH & HUMAN SRVCS	40,491	-	1,301	-	34,466	-	3,310	-	1,414
DEPARTMENT OF THE INTERIOR	3,437	2,141	45	-	541	-	-	-	710
DEPARTMENT OF TRANSPORTATION	2,722	-	464	-	247	-	-	-	2,011
ENVIRONMENTAL PROTECTION AGENCY	6,078	1,264	1,978	-	1,264	-	864	-	708
NATIONAL AERONAUTICS AND SPACE ADMIN	477,998	157,141	318,632	-	2,076	-	149	-	-
NATIONAL SCIENCE FOUNDATION	15,464	14	920	-	14,334	-	196	-	-

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TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1980'

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
GEORGIA									
TOTAL	169,794	63,800	31,540	-	62,669	-	5,071	-	6,714
DEPARTMENT OF AGRICULTURE	27,336	19,950	271	-	7,115	-	-	-	-
DEPARTMENT OF COMMERCE	1,553	2	64	-	584	-	616	-	287
DEPARTMENT OF DEFENSE	38,043	5,661	22,505	-	9,877	-	-	-	-
DEPARTMENT OF ENERGY	6,985	483	413	-	4,931	-	-	-	1,158
DEPARTMENT OF HEALTH & HUMAN SRVCS	60,632	27,559	174	-	27,816	-	2,625	-	2,458
DEPARTMENT OF THE INTERIOR	4,064	2,240	78	-	769	-	-	-	977
DEPARTMENT OF TRANSPORTATION	2,088	-	808	-	852	-	-	-	428
ENVIRONMENTAL PROTECTION AGENCY	11,490	6,539	1,742	-	789	-	1,514	-	906
NATIONAL AERONAUTICS AND SPACE ADMIN	8,900	1,346	5,485	-	2,069	-	-	-	-
NATIONAL SCIENCE FOUNDATION	8,703	20	-	-	7,867	-	316	-	500
MARYLAND									
TOTAL	2,594,960	1,645,053	674,926	31,984	206,326	3,300	28,808	-	4,563
DEPARTMENT OF AGRICULTURE	71,293	61,703	1,093	-	8,497	-	-	-	-
DEPARTMENT OF COMMERCE	98,652	92,732	4,184	-	1,432	-	124	-	180
DEPARTMENT OF DEFENSE	966,468	589,904	284,467	-	84,126	-	7,971	-	-
DEPARTMENT OF ENERGY	52,931	14,010	24,567	-	7,854	-	5,839	-	661
DEPARTMENT OF HEALTH & HUMAN SRVCS	857,683	668,612	61,366	31,984	84,841	-	9,679	-	1,201
DEPARTMENT OF THE INTERIOR	15,298	12,889	1,856	-	171	-	-	-	382
DEPARTMENT OF TRANSPORTATION	48,503	4,683	39,163	-	596	3,300	174	-	587
ENVIRONMENTAL PROTECTION AGENCY	22,812	15,188	4,280	-	1,477	-	557	-	1,310
NATIONAL AERONAUTICS AND SPACE ADMIN	446,047	183,096	252,950	-	5,939	-	3,820	-	242
NATIONAL SCIENCE FOUNDATION	15,273	2,236	1,000	-	11,393	-	644	-	-
NORTH CAROLINA									
TOTAL	227,681	81,243	20,590	1,995	107,843	-	13,662	-	2,358
DEPARTMENT OF AGRICULTURE	14,774	7,159	80	-	7,535	-	-	-	-
DEPARTMENT OF COMMERCE	6,719	2,595	114	-	2,502	-	1,305	-	203
DEPARTMENT OF DEFENSE	31,397	12,372	14,542	-	3,274	-	1,209	-	-
DEPARTMENT OF ENERGY	9,509	806	1,776	1,995	3,467	-	1,053	-	412
DEPARTMENT OF HEALTH & HUMAN SRVCS	106,999	22,710	1,212	-	77,121	-	5,627	-	329
DEPARTMENT OF THE INTERIOR	3,975	1,894	627	-	808	-	-	-	646
DEPARTMENT OF TRANSPORTATION	755	327	61	-	348	-	-	-	19
ENVIRONMENTAL PROTECTION AGENCY	40,359	33,175	1,827	-	2,759	-	1,849	-	749
NATIONAL AERONAUTICS AND SPACE ADMIN	4,375	205	341	-	1,284	-	2,545	-	-
NATIONAL SCIENCE FOUNDATION	8,819	-	-	-	8,745	-	74	-	-
SOUTH CAROLINA									
TOTAL	87,459	7,962	26,728	30,125	20,949	-	411	-	1,284
DEPARTMENT OF AGRICULTURE	7,698	4,155	62	-	3,481	-	-	-	-
DEPARTMENT OF COMMERCE	3,098	2,095	495	-	401	-	-	-	107
DEPARTMENT OF DEFENSE	2,521	548	950	-	1,023	-	-	-	-
DEPARTMENT OF ENERGY	55,423	-	25,076	30,125	201	-	-	-	21
DEPARTMENT OF HEALTH & HUMAN SRVCS	11,171	-	-	-	10,696	-	194	-	281
DEPARTMENT OF THE INTERIOR	1,937	1,128	-	-	334	-	17	-	458
DEPARTMENT OF TRANSPORTATION	227	-	41	-	84	-	-	-	102
ENVIRONMENTAL PROTECTION AGENCY	1,057	-	-	-	542	-	200	-	315
NATIONAL AERONAUTICS AND SPACE ADMIN	644	36	104	-	504	-	-	-	-
NATIONAL SCIENCE FOUNDATION	3,683	-	-	-	3,683	-	-	-	-
VIRGINIA									
TOTAL	1,047,052	460,995	468,422	-	60,950	13,637	25,314	15,417	2,317
DEPARTMENT OF AGRICULTURE	5,507	546	10	-	4,857	-	4	-	90
DEPARTMENT OF COMMERCE	4,068	885	2,220	-	742	-	10	-	211
DEPARTMENT OF DEFENSE	616,541	245,564	332,532	-	3,697	13,637	5,694	15,417	-
DEPARTMENT OF ENERGY	31,172	1,301	21,277	-	4,869	-	3,725	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	56,839	680	24,145	-	29,835	-	2,179	-	-
DEPARTMENT OF THE INTERIOR	32,994	22,372	8,777	-	962	-	408	-	475
DEPARTMENT OF TRANSPORTATION	28,699	4,475	14,982	-	377	-	8,794	-	71
ENVIRONMENTAL PROTECTION AGENCY	10,028	3,885	3,847	-	1,062	-	198	-	1,036
NATIONAL AERONAUTICS AND SPACE ADMIN	242,921	171,944	60,317	-	6,140	-	4,086	-	434
NATIONAL SCIENCE FOUNDATION	18,383	9,343	315	-	8,509	-	216	-	-
WEST VIRGINIA									
TOTAL	152,032	104,862	18,891	-	12,459	12,960	862	-	1,998
DEPARTMENT OF AGRICULTURE	6,940	4,630	21	-	2,289	-	-	-	-
DEPARTMENT OF COMMERCE	2,847	-	21	-	2,713	-	-	-	113
DEPARTMENT OF DEFENSE	17,666	-	17,600	-	66	-	-	-	-
DEPARTMENT OF ENERGY	90,360	88,323	-	-	2,037	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	12,017	8,841	-	-	2,399	-	360	-	417
DEPARTMENT OF THE INTERIOR	5,555	2,918	964	-	1,353	-	-	-	320
DEPARTMENT OF TRANSPORTATION	1,314	-	30	-	486	-	400	-	398
ENVIRONMENTAL PROTECTION AGENCY	1,107	-	255	-	-	-	102	-	750
NATIONAL AERONAUTICS AND SPACE ADMIN	150	150	-	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	14,076	-	-	-	1,116	12,960	-	-	-

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TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1993

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
EAST SOUTH CENTRAL									
TOTAL	1,492,778	503,442	549,045	270,022	136,479	4,988	19,980	-	8,322
DEPARTMENT OF AGRICULTURE	41,482	19,264	250	-	21,968	-	-	-	-
DEPARTMENT OF COMMERCE	7,544	3,150	1,676	-	980	-	115	-	1,723
DEPARTMENT OF DEFENSE	495,370	254,394	236,632	72	3,958	12	302	-	-
DEPARTMENT OF ENERGY	564,029	37,429	240,614	268,007	12,414	4,565	710	-	299
DEPARTMENT OF HEALTH & HUMAN SRVCS	101,902	1,789	202	189	82,233	411	16,472	-	606
DEPARTMENT OF THE INTERIOR	14,095	8,455	1,414	-	1,966	-	-	-	2,260
DEPARTMENT OF TRANSPORTATION	4,329	1,388	660	-	426	-	133	-	1,722
ENVIRONMENTAL PROTECTION AGENCY	16,234	5,691	2,559	-	2,020	-	1,742	-	2,222
NATIONAL AERONAUTICS AND SPACE ADMIN	242,522	171,782	65,013	-	5,313	-	414	-	-
NATIONAL SCIENCE FOUNDATION	7,292	10	25	1,754	5,401	-	92	-	-
ALABAMA									
TOTAL	552,691	353,408	143,294	-	44,914	-	9,064	-	2,011
DEPARTMENT OF AGRICULTURE	8,361	2,375	29	-	5,957	-	-	-	-
DEPARTMENT OF COMMERCE	1,214	29	116	-	70	-	-	-	999
DEPARTMENT OF DEFENSE	232,605	149,177	81,069	-	2,057	-	302	-	-
DEPARTMENT OF ENERGY	46,504	34,284	10,839	-	1,371	-	-	-	10
DEPARTMENT OF HEALTH & HUMAN SRVCS	38,349	-	202	-	30,097	-	7,850	-	200
DEPARTMENT OF THE INTERIOR	6,354	4,390	1,325	-	418	-	-	-	221
DEPARTMENT OF TRANSPORTATION	1,703	660	537	-	265	-	71	-	170
ENVIRONMENTAL PROTECTION AGENCY	1,930	-	550	-	511	-	458	-	411
NATIONAL AERONAUTICS AND SPACE ADMIN	214,484	162,593	48,602	-	2,998	-	291	-	-
NATIONAL SCIENCE FOUNDATION	1,187	-	25	-	1,070	-	92	-	-
KENTUCKY									
TOTAL	107,925	18,596	67,064	-	19,695	-	1,131	-	1,439
DEPARTMENT OF AGRICULTURE	6,802	1,548	12	-	5,242	-	-	-	-
DEPARTMENT OF COMMERCE	198	-	-	-	190	-	-	-	13
DEPARTMENT OF DEFENSE	16,126	14,121	1,798	-	207	-	-	-	-
DEPARTMENT OF ENERGY	64,268	-	63,560	-	443	-	6	-	259
DEPARTMENT OF HEALTH & HUMAN SRVCS	11,995	1,710	-	-	9,774	-	501	-	-
DEPARTMENT OF THE INTERIOR	2,295	1,140	54	-	562	-	-	-	539
DEPARTMENT OF TRANSPORTATION	303	-	76	-	120	-	-	-	107
ENVIRONMENTAL PROTECTION AGENCY	3,157	-	1,442	-	625	-	524	-	566
NATIONAL AERONAUTICS AND SPACE ADMIN	1,006	17	132	-	757	-	100	-	-
NATIONAL SCIENCE FOUNDATION	1,785	-	-	-	1,785	-	-	-	-
MISSISSIPPI									
TOTAL	109,284	66,688	21,945	-	17,218	-	1,121	-	2,312
DEPARTMENT OF AGRICULTURE	20,064	14,068	191	-	5,805	-	-	-	-
DEPARTMENT OF COMMERCE	5,721	3,052	1,523	-	473	-	113	-	533
DEPARTMENT OF DEFENSE	50,390	43,959	5,851	-	580	-	-	-	-
DEPARTMENT OF ENERGY	2,697	-	1,396	-	1,290	-	-	-	11
DEPARTMENT OF HEALTH & HUMAN SRVCS	7,390	39	-	-	6,601	-	721	-	29
DEPARTMENT OF THE INTERIOR	2,758	1,864	-	-	361	-	-	-	533
DEPARTMENT OF TRANSPORTATION	1,377	706	15	-	-	-	-	-	656
ENVIRONMENTAL PROTECTION AGENCY	1,559	-	-	-	791	-	264	-	503
NATIONAL AERONAUTICS AND SPACE ADMIN	16,673	3,020	12,969	-	661	-	23	-	-
NATIONAL SCIENCE FOUNDATION	656	-	-	-	656	-	-	-	-
TENNESSEE									
TOTAL	722,878	64,700	316,742	270,022	54,752	4,988	8,664	-	3,010
DEPARTMENT OF AGRICULTURE	6,255	1,273	18	-	4,964	-	-	-	-
DEPARTMENT OF COMMERCE	411	89	37	-	157	-	2	-	126
DEPARTMENT OF DEFENSE	196,249	47,127	147,924	72	1,114	12	-	-	-
DEPARTMENT OF ENERGY	450,559	3,145	164,819	268,007	9,310	4,565	704	-	9
DEPARTMENT OF HEALTH & HUMAN SRVCS	44,179	40	-	189	35,761	411	7,400	-	377
DEPARTMENT OF THE INTERIOR	2,678	1,151	35	-	525	-	-	-	967
DEPARTMENT OF TRANSPORTATION	946	22	32	-	41	-	62	-	789
ENVIRONMENTAL PROTECTION AGENCY	7,589	5,691	567	-	93	-	496	-	742
NATIONAL AERONAUTICS AND SPACE ADMIN	10,359	6,152	3,310	-	897	-	-	-	-
NATIONAL SCIENCE FOUNDATION	3,654	10	-	1,754	1,890	-	-	-	-
WEST SOUTH CENTRAL									
TOTAL	1,585,438	364,233	915,376	404	260,531	370	27,325	125	17,074
DEPARTMENT OF AGRICULTURE	72,799	48,734	558	-	23,506	-	-	-	1
DEPARTMENT OF COMMERCE	11,875	4,432	1,994	-	3,695	-	121	-	1,633
DEPARTMENT OF DEFENSE	368,409	48,281	302,837	-	12,662	220	4,284	125	-
DEPARTMENT OF ENERGY	144,327	40,516	87,616	404	13,937	150	1,338	-	366
DEPARTMENT OF HEALTH & HUMAN SRVCS	176,631	11,874	505	-	151,840	-	10,282	-	2,130
DEPARTMENT OF THE INTERIOR	16,883	6,777	1,430	-	2,508	-	985	-	5,183
DEPARTMENT OF TRANSPORTATION	38,380	3,043	22,815	-	4,611	-	3,271	-	4,640
ENVIRONMENTAL PROTECTION AGENCY	31,491	11,372	8,828	-	4,040	-	4,326	-	2,925
NATIONAL AERONAUTICS AND SPACE ADMIN	694,091	189,195	488,714	-	13,509	-	2,477	-	196
NATIONAL SCIENCE FOUNDATION	30,552	9	79	-	30,223	-	241	-	-

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TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
ARKANSAS									
TOTAL	29,955	14,213	3,406	404	9,071	220	898	125	1,618
DEPARTMENT OF AGRICULTURE	5,691	1,586	1	-	4,104	-	-	-	-
DEPARTMENT OF COMMERCE	363	-	169	-	136	-	-	-	58
DEPARTMENT OF DEFENSE	1,627	154	164	-	798	220	166	125	-
DEPARTMENT OF ENERGY	3,460	-	2,995	404	61	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	13,374	10,160	-	-	2,156	-	358	-	700
DEPARTMENT OF THE INTERIOR	1,889	1,677	30	-	156	-	-	-	26
DEPARTMENT OF TRANSPORTATION	833	-	35	-	226	-	-	-	572
ENVIRONMENTAL PROTECTION AGENCY	1,650	636	-	-	378	-	374	-	262
NATIONAL AERONAUTICS AND SPACE ADMIN	190	-	12	-	178	-	-	-	-
NATIONAL SCIENCE FOUNDATION	878	-	-	-	878	-	-	-	-
LOUISIANA									
TOTAL	269,752	32,445	198,833	-	34,065	-	1,389	-	3,020
DEPARTMENT OF AGRICULTURE	30,978	25,244	177	-	5,557	-	-	-	-
DEPARTMENT OF COMMERCE	3,574	16	1,450	-	1,198	-	-	-	910
DEPARTMENT OF DEFENSE	18,216	3,032	14,063	-	1,077	-	44	-	-
DEPARTMENT OF ENERGY	9,338	-	6,197	-	3,141	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	21,505	894	25	-	19,080	-	1,242	-	264
DEPARTMENT OF THE INTERIOR	2,538	598	377	-	668	-	-	-	895
DEPARTMENT OF TRANSPORTATION	1,200	538	164	-	164	-	-	-	334
ENVIRONMENTAL PROTECTION AGENCY	1,786	-	318	-	748	-	103	-	617
NATIONAL AERONAUTICS AND SPACE ADMIN	178,715	2,123	176,062	-	530	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,902	-	-	-	1,902	-	-	-	-
OKLAHOMA									
TOTAL	94,479	54,177	13,863	-	19,612	-	4,715	-	2,112
DEPARTMENT OF AGRICULTURE	7,849	3,848	68	-	3,933	-	-	-	-
DEPARTMENT OF COMMERCE	2,793	1,891	141	-	622	-	121	-	19
DEPARTMENT OF DEFENSE	4,209	1,907	984	-	1,293	-	25	-	-
DEPARTMENT OF ENERGY	44,802	39,696	4,497	-	608	-	1	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	9,583	29	-	-	6,130	-	3,424	-	-
DEPARTMENT OF THE INTERIOR	2,345	843	1	-	576	-	-	-	925
DEPARTMENT OF TRANSPORTATION	9,317	1,909	6,854	-	160	-	-	-	394
ENVIRONMENTAL PROTECTION AGENCY	7,467	3,832	1,128	-	768	-	964	-	775
NATIONAL AERONAUTICS AND SPACE ADMIN	3,018	222	190	-	2,606	-	-	-	-
NATIONAL SCIENCE FOUNDATION	3,096	-	-	-	2,916	-	180	-	-
TEXAS									
TOTAL	1,191,252	263,398	699,274	-	197,783	150	20,323	-	10,324
DEPARTMENT OF AGRICULTURE	28,291	18,056	312	-	9,912	-	-	-	1
DEPARTMENT OF COMMERCE	5,145	2,525	234	-	1,739	-	-	-	647
DEPARTMENT OF DEFENSE	344,357	43,188	287,626	-	9,494	-	4,049	-	-
DEPARTMENT OF ENERGY	86,727	820	73,927	-	10,127	150	1,337	-	366
DEPARTMENT OF HEALTH & HUMAN SRVCS	132,169	791	480	-	124,474	-	5,258	-	1,166
DEPARTMENT OF THE INTERIOR	10,111	3,659	1,022	-	1,108	-	985	-	3,337
DEPARTMENT OF TRANSPORTATION	27,030	596	15,762	-	4,061	-	3,271	-	3,340
ENVIRONMENTAL PROTECTION AGENCY	20,598	6,904	7,392	-	2,146	-	2,885	-	1,271
NATIONAL AERONAUTICS AND SPACE ADMIN	512,169	186,850	312,450	-	10,195	-	2,477	-	196
NATIONAL SCIENCE FOUNDATION	24,676	9	79	-	24,527	-	61	-	-
MOUNTAIN									
TOTAL	2,558,168	495,819	893,241	436,405	219,750	365,802	37,213	94,588	35,350
DEPARTMENT OF AGRICULTURE	56,689	38,575	380	-	17,646	-	66	-	21
DEPARTMENT OF COMMERCE	43,752	36,647	1,813	-	3,799	332	697	-	464
DEPARTMENT OF DEFENSE	697,763	214,916	439,593	5,140	28,444	6,542	2,981	-	147
DEPARTMENT OF ENERGY	1,163,895	42,293	247,956	430,869	21,775	316,235	13,861	94,588	6,313
DEPARTMENT OF HEALTH & HUMAN SRVCS	109,642	7,275	316	396	92,242	-	14,081	-	5,332
DEPARTMENT OF THE INTERIOR	94,565	63,244	7,807	-	9,422	-	19	-	14,073
DEPARTMENT OF TRANSPORTATION	22,579	4,708	10,639	-	241	-	-	-	6,991
ENVIRONMENTAL PROTECTION AGENCY	20,034	7,113	4,708	-	3,966	-	2,253	-	1,994
NATIONAL AERONAUTICS AND SPACE ADMIN	277,420	80,647	179,739	-	14,924	12	2,198	-	-
NATIONAL SCIENCE FOUNDATION	81,930	401	290	-	37,391	42,681	1,057	-	10
ARIZONA									
TOTAL	334,515	117,403	158,374	-	38,905	14,883	2,152	-	2,399
DEPARTMENT OF AGRICULTURE	11,051	8,211	109	-	2,731	-	-	-	-
DEPARTMENT OF COMMERCE	530	1	1	-	331	-	152	-	45
DEPARTMENT OF DEFENSE	173,265	37,803	130,518	-	4,868	-	31	-	45
DEPARTMENT OF ENERGY	14,135	-	10,867	-	3,093	-	-	-	175
DEPARTMENT OF HEALTH & HUMAN SRVCS	18,107	2,556	-	-	14,654	-	758	-	139
DEPARTMENT OF THE INTERIOR	7,296	2,833	814	-	1,371	-	19	-	2,259
DEPARTMENT OF TRANSPORTATION	1,609	-	1,449	-	-	-	-	-	159
ENVIRONMENTAL PROTECTION AGENCY	984	-	-	-	574	-	233	-	177
NATIONAL AERONAUTICS AND SPACE ADMIN	85,950	65,994	14,616	-	4,497	-	843	-	-
NATIONAL SCIENCE FOUNDATION	21,690	5	-	-	6,686	14,883	116	-	-

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TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
COLORADO									
TOTAL	573,730	94,154	264,199	3,698	80,941	26,816	11,209	94,588	8,135
DEPARTMENT OF AGRICULTURE	13,984	10,070	102	-	3,746	-	66	-	-
DEPARTMENT OF COMMERCE	42,317	36,561	1,812	-	3,050	332	545	-	17
DEPARTMENT OF DEFENSE	134,501	4,002	126,051	-	4,441	-	7	-	-
DEPARTMENT OF ENERGY	138,861	744	39,757	3,698	7,660	-	1,114	94,588	1,300
DEPARTMENT OF HEALTH & HUMAN SRVCS	44,793	109	286	-	32,933	-	6,999	-	4,466
DEPARTMENT OF THE INTERIOR	39,960	31,321	4,192	-	2,639	-	-	-	1,808
DEPARTMENT OF TRANSPORTATION	12,669	4,435	8,012	-	67	-	-	-	155
ENVIRONMENTAL PROTECTION AGENCY	9,117	2,465	3,766	-	1,968	-	529	-	389
NATIONAL AERONAUTICS AND SPACE ADMIN	91,619	4,224	80,116	-	5,979	12	1,288	-	-
NATIONAL SCIENCE FOUNDATION	45,909	223	95	-	18,458	26,472	661	-	-
IDAHO									
TOTAL	147,575	8,194	11,566	96,467	4,893	19,791	476	-	6,288
DEPARTMENT OF AGRICULTURE	7,930	4,891	54	-	2,979	-	-	-	6
DEPARTMENT OF COMMERCE	156	-	-	-	11	-	-	-	145
DEPARTMENT OF DEFENSE	217	154	5	-	58	-	-	-	-
DEPARTMENT OF ENERGY	130,012	-	11,456	96,467	528	19,791	-	-	1,770
DEPARTMENT OF HEALTH & HUMAN SRVCS	581	-	-	-	367	-	214	-	-
DEPARTMENT OF THE INTERIOR	5,356	3,149	-	-	492	-	-	-	1,715
DEPARTMENT OF TRANSPORTATION	2,572	-	13	-	-	-	-	-	2,559
ENVIRONMENTAL PROTECTION AGENCY	463	-	-	-	118	-	262	-	83
NATIONAL AERONAUTICS AND SPACE ADMIN	67	-	38	-	29	-	-	-	-
NATIONAL SCIENCE FOUNDATION	321	-	-	-	311	-	-	-	10
MONTANA									
TOTAL	45,664	15,315	18,964	-	5,861	-	446	-	5,078
DEPARTMENT OF AGRICULTURE	9,249	6,854	41	-	2,354	-	-	-	-
DEPARTMENT OF COMMERCE	109	-	-	-	-	-	-	-	109
DEPARTMENT OF DEFENSE	5,774	-	5,359	-	324	-	-	-	91
DEPARTMENT OF ENERGY	14,100	2	13,088	-	541	-	-	-	469
DEPARTMENT OF HEALTH & HUMAN SRVCS	6,039	4,570	30	-	731	-	331	-	377
DEPARTMENT OF THE INTERIOR	7,920	3,889	430	-	609	-	-	-	2,992
DEPARTMENT OF TRANSPORTATION	770	-	16	-	26	-	-	-	728
ENVIRONMENTAL PROTECTION AGENCY	831	-	-	-	404	-	115	-	312
NATIONAL AERONAUTICS AND SPACE ADMIN	114	-	-	-	114	-	-	-	-
NATIONAL SCIENCE FOUNDATION	758	-	-	-	758	-	-	-	-
NEVADA									
TOTAL	214,471	33,977	166,136	2,800	5,132	-	5,428	-	998
DEPARTMENT OF AGRICULTURE	1,736	659	10	-	1,067	-	-	-	-
DEPARTMENT OF COMMERCE	57	-	-	-	39	-	-	-	18
DEPARTMENT OF DEFENSE	20,543	16,627	3,667	-	249	-	-	-	-
DEPARTMENT OF ENERGY	175,856	5,024	161,920	2,800	813	-	5,124	-	175
DEPARTMENT OF HEALTH & HUMAN SRVCS	907	-	-	-	838	-	69	-	-
DEPARTMENT OF THE INTERIOR	8,008	6,684	60	-	672	-	-	-	592
DEPARTMENT OF TRANSPORTATION	100	-	19	-	-	-	-	-	81
ENVIRONMENTAL PROTECTION AGENCY	5,084	4,648	-	-	129	-	175	-	132
NATIONAL AERONAUTICS AND SPACE ADMIN	964	162	460	-	292	-	50	-	-
NATIONAL SCIENCE FOUNDATION	1,216	173	-	-	1,033	-	10	-	-
NEW MEXICO									
TOTAL	954,179	145,717	120,493	333,440	32,732	304,312	12,823	-	4,662
DEPARTMENT OF AGRICULTURE	2,713	1,076	17	-	1,605	-	-	-	15
DEPARTMENT OF COMMERCE	158	85	-	-	55	-	-	-	18
DEPARTMENT OF DEFENSE	250,637	130,154	92,992	5,140	12,855	6,542	2,943	-	11
DEPARTMENT OF ENERGY	644,256	-	9,588	327,904	1,386	296,444	7,623	-	1,311
DEPARTMENT OF HEALTH & HUMAN SRVCS	13,246	40	-	396	10,682	-	2,030	-	98
DEPARTMENT OF THE INTERIOR	7,598	4,236	1,003	-	579	-	-	-	1,780
DEPARTMENT OF TRANSPORTATION	2,760	273	1,006	-	141	-	-	-	1,340
ENVIRONMENTAL PROTECTION AGENCY	342	-	-	-	167	-	86	-	89
NATIONAL AERONAUTICS AND SPACE ADMIN	27,820	9,853	15,793	-	2,157	-	17	-	-
NATIONAL SCIENCE FOUNDATION	4,649	-	94	-	3,105	1,326	124	-	-
UTAH									
TOTAL	243,929	39,894	152,419	-	43,534	-	4,193	-	3,889
DEPARTMENT OF AGRICULTURE	7,494	5,560	33	-	1,901	-	-	-	-
DEPARTMENT OF COMMERCE	95	-	-	-	-	-	-	-	95
DEPARTMENT OF DEFENSE	112,542	26,176	80,933	-	5,433	-	-	-	-
DEPARTMENT OF ENERGY	6,762	-	1,280	-	5,033	-	-	-	449
DEPARTMENT OF HEALTH & HUMAN SRVCS	25,540	-	-	-	21,611	-	3,680	-	249
DEPARTMENT OF THE INTERIOR	12,195	7,856	1,255	-	1,662	-	-	-	1,422
DEPARTMENT OF TRANSPORTATION	1,582	-	101	-	7	-	-	-	1,474
ENVIRONMENTAL PROTECTION AGENCY	1,086	-	-	-	519	-	367	-	200
NATIONAL AERONAUTICS AND SPACE ADMIN	70,523	302	68,716	-	1,505	-	-	-	-
NATIONAL SCIENCE FOUNDATION	6,110	-	101	-	5,863	-	146	-	-

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TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
WYOMING									
TOTAL	53,904	41,165	1,100	-	7,852	-	486	-	3,301
DEPARTMENT OF AGRICULTURE	2,531	1,254	14	-	1,263	-	-	-	-
DEPARTMENT OF COMMERCE	330	-	-	-	313	-	-	-	17
DEPARTMENT OF DEFENSE	284	-	68	-	216	-	-	-	-
DEPARTMENT OF ENERGY	39,913	36,523	-	-	2,721	-	-	-	669
DEPARTMENT OF HEALTH & HUMAN SRVCS	429	-	-	-	426	-	-	-	3
DEPARTMENT OF THE INTERIOR	6,232	3,276	53	-	1,398	-	-	-	1,505
DEPARTMENT OF TRANSPORTATION	518	-	23	-	-	-	-	-	495
ENVIRONMENTAL PROTECTION AGENCY	2,127	-	942	-	87	-	486	-	612
NATIONAL AERONAUTICS AND SPACE ADMIN	363	112	-	-	251	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,177	-	-	-	1,177	-	-	-	-
PACIFIC									
TOTAL	8,272,797	1,026,052	5,204,846	199,199	756,119	630,286	167,264	245,872	43,159
DEPARTMENT OF AGRICULTURE	83,124	59,137	739	-	23,021	-	57	-	170
DEPARTMENT OF COMMERCE	53,603	30,737	5,470	-	12,535	108	665	163	3,925
DEPARTMENT OF DEFENSE	4,287,383	778,274	3,222,394	-	70,161	25,734	34,027	156,734	9
DEPARTMENT OF ENERGY	1,064,299	18,323	259,264	199,199	50,237	440,716	2,681	87,047	6,832
DEPARTMENT OF HEALTH & HUMAN SRVCS	532,516	3,038	22,319	-	369,444	8,184	112,831	639	16,011
DEPARTMENT OF THE INTERIOR	75,068	44,672	15,019	-	7,594	300	40	322	7,121
DEPARTMENT OF TRANSPORTATION	36,506	7,086	21,212	-	2,696	410	-	-	5,102
ENVIRONMENTAL PROTECTION AGENCY	25,559	4,550	8,391	-	5,645	-	3,657	-	3,316
NATIONAL AERONAUTICS AND SPACE ADMIN	1,927,535	78,457	1,642,131	-	45,779	154,571	5,854	602	141
NATIONAL SCIENCE FOUNDATION	187,204	1,778	7,907	-	169,007	263	7,452	265	532
ALASKA									
TOTAL	42,527	21,650	1,971	-	13,628	-	426	-	4,852
DEPARTMENT OF AGRICULTURE	5,077	3,825	8	-	1,244	-	-	-	-
DEPARTMENT OF COMMERCE	5,751	3,782	6	-	26	-	198	-	1,739
DEPARTMENT OF DEFENSE	11,597	4,867	1,658	-	5,072	-	-	-	-
DEPARTMENT OF ENERGY	878	-	122	-	756	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	761	-	-	-	546	-	-	-	215
DEPARTMENT OF THE INTERIOR	11,785	8,813	14	-	500	-	-	-	2,458
DEPARTMENT OF TRANSPORTATION	350	289	11	-	5	-	-	-	45
ENVIRONMENTAL PROTECTION AGENCY	885	-	-	-	467	-	100	-	318
NATIONAL AERONAUTICS AND SPACE ADMIN	1,617	74	152	-	1,186	-	128	-	77
NATIONAL SCIENCE FOUNDATION	3,826	-	-	-	3,826	-	-	-	-
CALIFORNIA									
TOTAL	7,138,014	900,047	4,642,427	74,811	569,128	630,286	134,747	162,068	24,500
DEPARTMENT OF AGRICULTURE	45,221	34,338	463	-	10,379	-	15	-	26
DEPARTMENT OF COMMERCE	14,319	6,480	3,867	-	2,958	108	375	-	631
DEPARTMENT OF DEFENSE	3,762,778	742,781	2,749,927	-	53,965	25,734	33,993	156,369	9
DEPARTMENT OF ENERGY	772,311	8,028	201,370	74,811	37,297	440,716	1,969	4,692	3,428
DEPARTMENT OF HEALTH & HUMAN SRVCS	410,307	1,722	22,216	-	281,448	8,184	83,652	292	12,793
DEPARTMENT OF THE INTERIOR	41,511	20,421	12,546	-	5,479	300	40	15	2,710
DEPARTMENT OF TRANSPORTATION	28,934	3,363	20,473	-	2,129	410	-	-	2,559
ENVIRONMENTAL PROTECTION AGENCY	17,595	3,244	7,846	-	2,340	-	2,367	-	1,798
NATIONAL AERONAUTICS AND SPACE ADMIN	1,891,098	77,892	1,616,209	-	36,670	154,571	5,299	435	22
NATIONAL SCIENCE FOUNDATION	153,940	1,778	7,510	-	136,563	263	7,037	265	524
HAWAII									
TOTAL	42,583	7,626	5,172	-	26,147	-	2,817	-	821
DEPARTMENT OF AGRICULTURE	3,798	2,585	23	-	1,185	-	-	-	5
DEPARTMENT OF COMMERCE	4,705	1,750	18	-	2,907	-	6	-	24
DEPARTMENT OF DEFENSE	7,727	1,234	4,669	-	1,824	-	-	-	-
DEPARTMENT OF ENERGY	4,968	-	42	-	4,676	-	-	-	250
DEPARTMENT OF HEALTH & HUMAN SRVCS	9,206	398	-	-	6,248	-	2,473	-	87
DEPARTMENT OF THE INTERIOR	2,601	1,586	277	-	373	-	-	-	365
DEPARTMENT OF TRANSPORTATION	190	-	100	-	-	-	-	-	90
ENVIRONMENTAL PROTECTION AGENCY	638	-	-	-	553	-	85	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	4,299	73	43	-	4,183	-	-	-	-
NATIONAL SCIENCE FOUNDATION	4,451	-	-	-	4,198	-	253	-	-
OREGON									
TOTAL	92,877	29,477	8,496	-	44,984	-	3,901	-	6,019
DEPARTMENT OF AGRICULTURE	17,145	11,694	48	-	5,403	-	-	-	-
DEPARTMENT OF COMMERCE	3,937	847	-	-	2,153	-	-	-	937
DEPARTMENT OF DEFENSE	4,625	1,310	426	-	2,889	-	-	-	-
DEPARTMENT OF ENERGY	14,803	5,897	5,600	-	2,172	-	7	-	1,127
DEPARTMENT OF HEALTH & HUMAN SRVCS	22,729	-	-	-	19,431	-	3,188	-	110
DEPARTMENT OF THE INTERIOR	10,889	8,835	649	-	578	-	-	-	827
DEPARTMENT OF TRANSPORTATION	2,718	-	394	-	30	-	-	-	2,294
ENVIRONMENTAL PROTECTION AGENCY	3,470	894	-	-	1,214	-	638	-	724
NATIONAL AERONAUTICS AND SPACE ADMIN	2,514	-	1,233	-	1,281	-	-	-	-
NATIONAL SCIENCE FOUNDATION	10,047	-	146	-	9,833	-	68	-	-

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TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
WASHINGTON									
TOTAL	951,795	67,252	546,790	124,388	102,232	-	20,373	93,804	6,967
DEPARTMENT OF AGRICULTURE	11,993	6,698	197	-	4,810	-	42	-	139
DEPARTMENT OF COMMERCE	24,891	17,878	1,579	-	4,591	-	86	163	594
DEPARTMENT OF DEFENSE	500,656	28,082	465,714	-	6,411	-	34	415	-
DEPARTMENT OF ENERGY	271,339	4,358	52,130	124,388	5,336	-	705	92,355	2,027
DEPARTMENT OF HEALTH & HUMAN SRVCS	74,513	918	103	-	51,771	-	18,518	397	2,806
DEPARTMENT OF THE INTERIOR	8,292	5,017	1,533	-	664	-	-	307	761
DEPARTMENT OF TRANSPORTATION	4,314	3,434	234	-	532	-	-	-	114
ENVIRONMENTAL PROTECTION AGENCY	2,971	412	545	-	1,071	-	467	-	476
NATIONAL AERONAUTICS AND SPACE ADMIN	28,007	416	24,494	-	2,459	-	427	167	42
NATIONAL SCIENCE FOUNDATION	14,940	-	251	-	14,587	-	94	-	8
OUTLYING AREAS									
TOTAL	45,250	15,941	16,449	-	9,210	2,641	20	-	999
DEPARTMENT OF AGRICULTURE	5,848	2,030	22	-	3,796	-	-	-	-
DEPARTMENT OF COMMERCE	1,013	154	112	-	314	-	3	-	430
DEPARTMENT OF DEFENSE	27,869	11,257	16,315	-	297	-	-	-	-
DEPARTMENT OF ENERGY	909	-	-	-	865	-	-	-	44
DEPARTMENT OF HEALTH & HUMAN SRVCS	3,978	460	-	-	3,354	-	17	-	147
DEPARTMENT OF THE INTERIOR	2,648	1,982	-	-	297	-	-	-	369
DEPARTMENT OF TRANSPORTATION	108	-	-	-	108	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	148	-	-	-	148	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	58	58	-	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	2,672	-	-	-	31	2,641	-	-	-
OFFICES ABROAD									
TOTAL	73,538	52,592	19,889	-	865	-	192	-	-
DEPARTMENT OF AGRICULTURE	-	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE	86	-	11	-	75	-	-	-	-
DEPARTMENT OF DEFENSE	8,548	7,485	962	-	101	-	-	-	-
DEPARTMENT OF ENERGY	18,915	-	18,915	-	-	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	193	-	1	-	-	-	192	-	-
DEPARTMENT OF THE INTERIOR	-	-	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION	-	-	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	45,107	45,107	-	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	689	-	-	-	689	-	-	-	-

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 95 PERCENT OF TOTAL FEDERAL R&D OBLIGATIONS IN FY 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-102. FEDERAL OBLIGATIONS FOR R&D PLANT, BY GEOGRAPHIC DIVISION, STATE, AND PERFORMER SUPPORTED: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION AND STATE	TOTAL	FEDERAL INTRA-MURAL	EXTRAMURAL						
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITU-TIONS	FFRDCS ADMIN BY NONPROFIT INSTITU-TIONS	STATE AND LOCAL GOVTS
TOTAL	1,533,054	482,331	303,158	250,171	40,270	425,523	7,094	23,751	756
NEW ENGLAND	24,097	15,413	1,371	-	7,223	20	-	70	-
CONNECTICUT	1,039	754	100	-	115	-	-	70	-
MAINE	14	14	-	-	-	-	-	-	-
MASSACHUSETTS	20,373	12,211	1,224	-	6,918	20	-	-	-
NEW HAMPSHIRE	47	-	47	-	-	-	-	-	-
RHODE ISLAND	2,624	2,434	-	-	190	-	-	-	-
VERMONT	-	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC	187,377	24,551	5,800	29,408	8,456	118,517	-	-	645
NEW JERSEY	60,534	8,279	139	-	80	52,036	-	-	-
NEW YORK	91,375	2,969	500	13,042	7,738	66,481	-	-	645
PENNSYLVANIA	35,468	13,303	5,161	16,366	638	-	-	-	-
EAST NORTH CENTRAL	123,260	39,841	22,009	1,603	8,693	50,814	300	-	-
ILLINOIS	71,500	5,177	15,312	-	197	50,814	-	-	-
INDIANA	650	330	-	-	320	-	-	-	-
MICHIGAN	8,302	1,034	622	-	6,346	-	300	-	-
OHIO	40,279	32,581	6,075	1,603	20	-	-	-	-
WISCONSIN	2,529	719	-	-	1,810	-	-	-	-
WEST NORTH CENTRAL	53,524	10,261	41,338	-	329	1,575	-	-	21
IOWA	2,947	1,322	-	-	50	1,575	-	-	-
KANSAS	56	36	-	-	-	-	-	-	20
MINNESOTA	340	111	-	-	229	-	-	-	-
MISSOURI	40,922	136	40,786	-	-	-	-	-	-
NEBRASKA	2,067	2,017	-	-	50	-	-	-	-
NORTH DAKOTA	4,068	3,515	552	-	-	-	-	-	1
SOUTH DAKOTA	3,124	3,124	-	-	-	-	-	-	-
SOUTH ATLANTIC	181,239	165,266	4,306	862	6,305	4,500	-	-	-
DELAWARE	694	-	694	-	-	-	-	-	-
DISTRICT OF COLUMBIA	14,287	14,199	88	-	-	-	-	-	-
FLORIDA	46,681	43,681	200	-	2,800	-	-	-	-
GEORGIA	623	223	-	-	400	-	-	-	-
MARYLAND	53,331	50,164	167	-	3,000	-	-	-	-
NORTH CAROLINA	8,208	7,841	367	-	-	-	-	-	-
SOUTH CAROLINA	3,078	864	1,352	862	-	-	-	-	-
VIRGINIA	41,478	41,252	126	-	100	-	-	-	-
WEST VIRGINIA	12,859	7,042	1,312	-	5	4,500	-	-	-
EAST SOUTH CENTRAL	134,687	29,060	69,551	34,476	248	450	902	-	-
ALABAMA	47,910	13,591	34,319	-	-	-	-	-	-
KENTUCKY	46	-	-	-	46	-	-	-	-
MISSISSIPPI	6,622	6,622	-	-	-	-	-	-	-
TENNESSEE	80,109	8,847	35,232	34,476	202	450	902	-	-
WEST SOUTH CENTRAL	30,734	29,212	203	150	957	-	262	-	-
ARKANSAS	725	725	-	-	-	-	-	-	-
LOUISIANA	12,577	12,577	-	-	-	-	-	-	-
OKLAHOMA	3,249	3,193	53	-	3	-	-	-	-
TEXAS	14,233	12,717	150	150	954	-	262	-	-
MOUNTAIN	284,302	36,250	68,722	74,712	649	88,908	1,018	13,995	48
ARIZONA	1,767	1,667	100	-	-	-	-	-	-
COLORADO	35,631	17,445	2,195	208	170	1,613	-	13,995	5
IDAHO	45,120	620	1,275	33,464	27	9,730	-	-	4
MONTANA	3,707	253	3,405	-	16	-	-	-	33
NEVADA	22,419	66	22,353	-	-	-	-	-	-
NEW MEXICO	169,471	10,420	39,342	41,040	80	77,565	1,018	-	6
UTAH	1,915	1,559	5	-	351	-	-	-	-
WYOMING	4,272	4,220	47	-	5	-	-	-	-
PACIFIC	509,783	128,704	89,858	108,960	7,269	160,652	4,612	9,686	42
ALASKA	50	-	-	-	8	-	-	-	42
CALIFORNIA	377,408	123,545	77,719	8,518	6,966	160,652	8	-	-
HAWAII	153	153	-	-	-	-	-	-	-
OREGON	3,936	3,936	-	-	-	-	-	-	-
WASHINGTON	128,236	1,070	12,139	100,442	295	-	4,604	9,686	-
OUTLYING AREAS	2,879	2,651	-	-	141	87	-	-	-
OFFICES ABROAD	1,122	1,122	-	-	-	-	-	-	-

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 98 PERCENT OF TOTAL FEDERAL R&D PLANT OBLIGATIONS IN FY 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-103. FEDERAL OBLIGATIONS FOR R&D PLANT, BY GEOGRAPHIC DIVISION, STATE, AND AGENCY: FISCAL YEAR 1980

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION AND STATE	TOTAL	DEPT OF AGRICULTURE	DEPT OF COMMERCE	DEPT OF DEFENSE	DEPT OF ENERGY	DEPT OF HEALTH & HUMAN SERVICES	DEPT OF THE INTERIOR	DEPT OF TRANSPORTATION	ENVIRONMENTAL PROTECTION AGENCY	NATIONAL AERONAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDATION
TOTAL	1,533,054	56,371	4,645	208,200	1,024,124	30,573	7,541	23,300	-	159,100	18,700
NEW ENGLAND	24,097	14	-	16,302	7,620	111	-	-	-	-	50
CONNECTICUT	1,039	-	-	854	185	-	-	-	-	-	-
MAINE	14	14	-	-	-	-	-	-	-	-	-
MASSACHUSETTS	20,373	-	-	12,967	7,245	111	-	-	-	-	50
NEW HAMPSHIRE	47	-	-	47	-	-	-	-	-	-	-
RHODE ISLAND	2,624	-	-	2,434	190	-	-	-	-	-	-
VERMONT	-	-	-	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC	187,377	5,821	500	6,794	163,672	815	1,028	6,047	-	-	2,700
NEW JERSEY	60,534	-	-	2,579	52,116	-	-	5,839	-	-	-
NEW YORK	91,375	2,315	500	360	84,685	815	-	-	-	-	2,700
PENNSYLVANIA	35,469	3,506	-	3,855	26,871	-	1,029	208	-	-	-
EAST NORTH CENTRAL	123,260	6,735	-	21,757	81,822	300	632	200	-	9,763	2,000
ILLINOIS	71,800	4,323	-	384	67,046	-	47	-	-	-	-
INDIANA	650	326	-	4	320	-	-	-	-	-	-
MICHIGAN	7,802	304	-	-	6,468	300	230	-	-	-	500
OHIO	40,279	1,249	-	21,369	7,678	-	20	200	-	9,763	-
WISCONSIN	2,529	384	-	-	310	-	335	-	-	-	1,500
WEST NORTH CENTRAL	53,524	9,375	-	-	43,820	222	57	-	-	-	50
IOWA	2,947	1,322	-	-	1,625	-	-	-	-	-	-
KANSAS	55	36	-	-	20	-	-	-	-	-	-
MINNESOTA	340	111	-	-	-	222	7	-	-	-	-
MISSOURI	40,922	86	-	-	40,786	-	50	-	-	-	-
NEBRASKA	2,067	2,017	-	-	-	-	-	-	-	-	50
NORTH DAKOTA	4,069	2,679	-	-	1,389	-	-	-	-	-	-
SOUTH DAKOTA	3,124	3,124	-	-	-	-	-	-	-	-	-
SOUTH ATLANTIC	181,239	17,535	166	45,313	9,797	21,954	3,572	7,894	-	67,658	7,300
DELAWARE	694	-	-	-	-	-	-	694	-	-	-
DISTRICT OF COLUMBIA	14,287	537	-	7,569	1,255	-	-	-	-	4,926	-
FLORIDA	46,681	1,335	-	11,974	-	-	300	-	-	30,372	2,700
GEORGIA	623	223	-	-	400	-	-	-	-	-	-
MARYLAND	53,331	6,903	166	21,209	377	21,954	-	-	-	2,722	-
NORTH CAROLINA	7,708	7,341	-	-	-	-	367	-	-	-	-
SOUTH CAROLINA	3,079	746	-	-	2,332	-	-	-	-	-	-
VIRGINIA	41,479	-	-	4,540	-	-	-	7,200	-	29,638	100
WEST VIRGINIA	12,859	-	-	21	5,433	-	2,905	-	-	-	4,500
EAST SOUTH CENTRAL	134,687	1,652	-	9,833	104,717	902	281	-	-	17,302	-
ALABAMA	47,910	264	-	-	34,319	-	235	-	-	13,092	-
KENTUCKY	46	-	-	-	-	-	46	-	-	-	-
MISSISSIPPI	6,622	1,374	-	1,038	-	-	-	-	-	4,210	-
TENNESSEE	80,109	14	-	8,795	70,398	902	-	-	-	-	-
WEST SOUTH CENTRAL	30,784	6,427	-	4,183	3,022	700	32	-	-	16,370	50
ARKANSAS	725	-	-	-	-	700	25	-	-	-	-
LOUISIANA	12,577	2,607	-	372	-	-	-	-	-	9,598	-
OKLAHOMA	3,249	1,536	-	-	1,710	-	3	-	-	-	-
TEXAS	14,233	2,284	-	3,811	1,312	-	4	-	-	6,772	50
MOUNTAIN	284,302	3,433	96	25,132	248,820	-	1,489	3,257	-	212	1,613
ARIZONA	1,757	31	-	1,686	-	-	-	-	-	-	-
COLORADO	35,631	492	96	13,600	16,563	-	10	3,257	-	-	1,613
IDAHO	45,020	515	-	-	44,504	-	1	-	-	-	-
MONTANA	3,707	253	-	-	3,438	-	16	-	-	-	-
NEVADA	22,419	-	-	56	22,363	-	-	-	-	-	-
NEW MEXICO	169,471	590	-	9,765	158,613	-	383	-	-	212	-
UTAH	1,715	306	-	5	318	-	1,074	-	-	-	-
WYOMING	4,272	1,246	-	-	3,021	-	5	-	-	-	-
PACIFIC	509,783	4,872	3,883	75,764	360,693	5,569	450	5,902	-	47,795	4,850
ALASKA	50	-	-	-	42	-	8	-	-	-	-
CALIFORNIA	377,403	4,343	-	75,764	238,022	960	17	5,902	-	47,795	4,600
HAWAII	153	153	-	-	-	-	-	-	-	-	-
OREGON	3,936	53	3,883	-	-	-	-	-	-	-	-
WASHINGTON	128,236	323	-	-	122,629	4,609	425	-	-	-	250
OUTLYING AREAS	2,879	651	-	2,000	141	-	-	-	-	-	87
OFFICES ABROAD	1,122	-	-	1,122	-	-	-	-	-	-	-

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 98 PERCENT OF TOTAL FEDERAL R&D PLANT OBLIGATIONS IN FY 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-104. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1980, 1981, AND 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1980			ESTIMATES					
				1981			1982		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
TOTAL, ALL AGENCIES	7,929,402	4,020,917	50.7%	9,017,845	4,296,891	47.6%	9,995,795	4,590,651	45.9%
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	457,178	265,023	58.0	514,822	297,356	57.8	563,104	305,569	54.3
AGRICULTURAL COOPERATIVE SVC	1,419	1,110	78.2	2,069	1,495	72.3	2,114	1,642	77.7
AGRICULTURAL MARKETING SERVICE	1,227	945	77.0	1,358	1,045	77.0	1,386	1,067	77.0
ECONOMICS & STATISTICS SERVICE	29,356	17,613	60.0	34,485	20,691	60.0	36,868	20,663	56.0
FOREST SERVICE	101,352	70,630	69.7	110,957	77,258	69.6	121,632	84,675	69.6
OFF OF INTERNAT'L COOPERATION & DEV	760	458	60.3	846	510	60.3	906	546	60.3
OFFICE OF TRANSPORTATION	767	66	8.6	844	734	87.0	1,093	950	86.9
SCIENCE & EDUCATION ADMINISTRATION	322,297	174,201	54.0	364,263	195,623	53.7	399,105	196,026	49.1
AGRICULTURAL RESEARCH	315,488	167,392	53.1	356,948	188,308	52.8	390,822	187,743	48.0
AGRICULTURAL COOPERATIVE RESEARCH	6,809	6,809	100.0	7,315	7,315	100.0	8,283	8,283	100.0
DEPARTMENT OF COMMERCE, TOTAL	225,506	147,861	65.6	234,975	118,302	50.3	241,658	116,799	48.3
BUREAU OF THE CENSUS	2,832	1,712	60.5	3,280	2,099	64.0	3,386	2,063	60.9
ECONOMIC DEVELOPMENT ADMINISTRATION	1,368	903	66.0	1,152	760	66.0	-	-	-
MARITIME ADMINISTRATION	2,225	1,584	71.2	2,000	1,748	87.4	1,800	1,527	84.8
NATIONAL BUREAU OF STANDARDS	71,328	51,256	71.9	78,083	56,243	72.0	87,992	57,515	65.4
NAT'L OCEANIC & ATMOSPHERIC ADMIN	136,536	84,151	61.6	138,143	48,335	35.0	137,461	47,581	34.5
NAT'L TELECOMM & INFORMATION ADMIN	10,694	7,806	73.0	11,197	8,174	73.0	10,400	7,592	73.0
OFFICE OF THE SECRETARY	63	63	100.0	6	6	100.0	-	-	-
PATENT AND TRADEMARK OFFICE	460	386	83.9	1,114	937	84.1	619	521	84.2
DEPARTMENT OF DEFENSE, TOTAL	3,796,486	1,768,395	46.6	4,608,736	1,955,515	42.4	5,585,882	2,282,389	40.9
DEPARTMENT OF THE ARMY	1,125,212	570,862	50.7	1,271,085	614,816	48.4	1,518,821	719,173	47.4
DEPARTMENT OF THE NAVY	1,303,731	653,808	50.1	1,475,180	689,877	46.8	1,547,057	723,518	46.3
DEPARTMENT OF THE AIR FORCE	1,054,806	407,979	38.7	1,494,732	477,050	31.9	1,960,848	592,034	30.2
DEFENSE AGENCIES	279,766	134,846	48.2	335,172	172,722	51.5	515,697	246,414	47.8
DIRECTOR OF TEST & EVALUATION, DEFENSE	32,971	900	2.7	32,567	1,050	3.2	43,459	1,250	2.9
DEPARTMENT OF EDUCATION, TOTAL	4,045	2,638	65.2	4,184	2,729	65.2	1,516	1,255	82.8
DEPARTMENT OF ENERGY	473,598	131,233	27.7	516,729	111,691	21.6	366,793	92,397	25.2
DEPT OF HLTH & HUMAN SERVICES, TOTAL	820,155	443,091	54.0	842,258	459,949	54.6	894,103	453,792	50.8
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	63,306	30,407	48.0	71,469	33,629	47.1	98,057	39,445	40.2
CENTERS FOR DISEASE CONTROL	66,693	56,689	85.0	62,481	53,108	85.0	58,708	27,886	47.5
FOOD & DRUG ADMINISTRATION	59,824	38,885	65.0	59,708	38,810	65.0	60,108	39,070	65.0
HEALTH CARE FINANCING ADMIN	5,750	719	12.5	3,150	395	12.5	3,150	395	12.5
HEALTH RESOURCES ADMINISTRATION	154	105	68.2	155	105	67.7	-	-	-
HEALTH SERVICES ADMINISTRATION	6,439	5,557	86.3	6,455	5,566	86.2	1,100	839	76.3
NATIONAL INSTITUTES OF HEALTH	587,078	290,934	49.6	608,193	306,393	50.4	649,566	327,098	50.4
OFFICE OF ASST'T SECY FOR HEALTH	11,503	7,081	61.6	13,237	8,142	61.5	7,752	5,156	66.5
OFF OF HUMAN DEVELOPMENT SERVICES	2,650	1,979	74.7	2,703	2,167	80.2	1,858	1,693	91.1
OFFICE OF THE SECRETARY	2,044	550	26.9	2,051	550	26.8	1,250	550	44.0
SOCIAL SECURITY ADMINISTRATION	14,714	10,185	69.2	12,656	11,084	87.6	12,554	11,660	92.9
DEPT OF HOUSING & URBAN DEVELOPMENT	12,854	7,264	56.5	12,420	6,778	54.6	13,219	7,373	55.8
DEPARTMENT OF THE INTERIOR, TOTAL	242,071	157,906	65.2	266,109	168,052	63.2	271,690	171,892	63.3
BUREAU OF LAND MANAGEMENT	716	420	58.7	658	455	69.1	650	480	73.8
BUREAU OF MINES	56,028	45,400	81.0	55,400	44,900	81.0	55,700	45,200	81.1
GEOLOGICAL SURVEY	129,763	68,520	52.8	149,112	78,270	52.5	161,247	84,604	52.5
NATIONAL PARK SERVICE	5,995	4,136	69.0	7,777	3,791	48.7	7,371	4,343	58.9
OFFICE OF THE SECRETARY	930	735	79.0	991	944	95.3	840	793	94.4
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	666	350	52.6	464	382	82.3	442	397	89.8
OFFICE OF WATER RSCH & TECHNOLOGY	1,800	1,300	72.2	1,039	900	86.6	-	-	-
US FISH & WILDLIFE SERVICE	39,535	32,105	81.2	41,585	33,270	80.0	38,880	31,105	80.0
WATER AND POWER RESOURCES SERVICE	6,638	4,940	74.4	9,083	5,140	56.6	6,560	4,970	75.8
DEPARTMENT OF JUSTICE, TOTAL	2,869	1,783	62.1	2,033	1,295	63.7	1,950	1,328	68.1
DRUG ENFORCEMENT ADMINISTRATION	600	600	100.0	500	500	100.0	600	600	100.0
FEDERAL BUREAU OF INVESTIGATION	215	215	100.0	275	275	100.0	275	275	100.0
FEDERAL PRISON SYSTEM	107	107	100.0	107	107	100.0	107	107	100.0
IMMIGRATION & NATURALIZATION SVC	112	76	67.9	112	22	19.6	112	50	44.6
OFFICE OF THE ATTORNEY GENERAL	180	90	50.0	100	50	50.0	106	56	52.8
OFF OF JUSTICE ASSIST, RSCH, & STAT	1,655	695	42.0	939	341	36.3	750	240	32.0
DEPARTMENT OF LABOR, TOTAL	12,152	6,768	55.7	10,834	6,574	60.7	8,149	6,821	83.7
BUREAU OF LABOR STATISTICS	860	774	90.0	838	754	90.0	879	791	90.0
EMPLOYMENT STANDARDS ADMINISTRATION	3,900	900	23.1	3,200	900	28.1	1,400	900	64.3
EMPLOYMENT & TRAINING ADMIN	4,358	2,936	67.4	4,135	2,998	72.5	3,067	3,067	100.0
LABOR-MANAGEMENT SERVICES ADMIN	1,312	623	47.5	1,409	670	47.6	1,409	670	47.6
OCCUPATIONAL SAFETY & HEALTH ADMIN	607	607	100.0	240	240	100.0	332	332	100.0
OFFICE OF THE SECRETARY	1,115	928	83.2	1,012	1,012	100.0	1,061	1,061	100.0

CONTINUED ON NEXT PAGE

TABLE C-104. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1980, 1981, AND 1982

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	ACTUAL, 1980			ESTIMATES					
				1981			1982		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
DEPARTMENT OF STATE, TOTAL	841	520	61.8%	692	596	86.1%	747	690	92.4%
DEPARTMENTAL FUNDS	841	520	61.8	692	596	86.1	747	690	92.4
DEPARTMENT OF TRANSPORTATION, TOTAL ..	113,471	60,561	53.4	122,716	65,020	53.0	133,501	68,622	51.4
COAST GUARD	6,000	3,000	50.0	7,000	2,500	35.7	18,200	4,900	26.9
FEDERAL AVIATION ADMINISTRATION	24,580	13,519	55.0	28,634	15,750	55.0	28,836	15,860	55.0
FEDERAL HIGHWAY ADMINISTRATION	11,847	8,100	68.4	12,864	8,100	63.0	12,864	8,100	63.0
FEDERAL RAILROAD ADMINISTRATION	15,660	9,349	59.7	17,632	9,586	54.4	14,626	8,650	59.1
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	12,922	5,606	43.4	13,033	8,008	61.4	12,933	7,952	61.5
OFFICE OF THE SECRETARY	5,788	2,507	43.3	5,277	2,277	43.1	5,332	2,332	43.7
RESEARCH & SPECIAL PROGRAMS ADMIN ..	8,605	5,840	67.9	9,176	5,799	63.2	10,310	6,628	64.3
URBAN MASS TRANSPORTATION ADMIN	28,069	12,640	45.0	29,100	13,000	44.7	30,403	14,200	46.7
DEPARTMENT OF THE TREASURY, TOTAL	5,452	3,496	64.1	7,497	3,190	42.6	7,597	3,231	42.5
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	162	162	100.0	104	104	100.0	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	1,800	822	45.7	3,279	863	26.3	3,846	907	23.6
CUSTOMS SERVICE	200	20	10.0	213	19	8.9	189	19	10.1
INTERNAL REVENUE SERVICE	3,280	2,482	75.7	3,897	2,200	56.5	3,557	2,300	64.7
OFFICE OF PROTECTIVE RESEARCH	10	10	100.0	4	4	100.0	5	5	100.0
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,219	1,080	48.7	1,827	1,193	65.3	2,028	1,220	60.2
APPALACHIAN REGIONAL COMMISSION	60	43	71.7	85	67	78.8	100	70	70.0
COMMUNITY SERVICES ADMINISTRATION	1,525	1,525	100.0	1,520	1,520	100.0	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	1,850	307	16.6	1,191	166	13.9	954	133	13.9
ENVIRONMENTAL PROTECTION AGENCY	145,104	58,167	40.1	157,002	62,910	40.1	112,943	43,417	38.4
FEDERAL COMMUNICATIONS COMMISSION	2,196	2,196	100.0	1,858	1,858	100.0	1,655	1,655	100.0
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	5,131	2,463	48.0	6,282	3,015	48.0	7,274	3,491	48.0
FEDERAL HOME LOAN BANK BOARD	1,227	579	47.2	1,125	634	56.4	1,276	653	51.2
FEDERAL TRADE COMMISSION	3,021	2,567	85.0	4,166	3,258	78.2	4,375	3,467	79.2
GENERAL SERVICES ADMINISTRATION	2	2	100.0	50	38	76.0	100	75	75.0
INTERNATIONAL COMMUNICATION AGENCY ...	85	57	67.1	157	106	67.5	17	11	64.7
INTERNAT'L DEV COOPERATION AGENCY	5,546	4,046	73.0	7,550	5,675	75.2	8,420	6,420	76.2
AGENCY FOR INTERNAT'L DEVELOPMENT ..	5,546	4,046	73.0	7,550	5,675	75.2	8,420	6,420	76.2
INTERSTATE COMMERCE COMMISSION	143	143	100.0	175	175	100.0	150	150	100.0
LIBRARY OF CONGRESS	6,400	4,095	64.0	5,900	4,647	78.8	6,300	5,053	80.2
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,261,850	744,686	59.0	1,321,966	789,196	59.7	1,380,978	790,913	57.3
NATIONAL SCIENCE FOUNDATION	75,113	41,484	55.2	81,029	44,438	54.8	82,109	43,640	53.1
NUCLEAR REGULATORY COMMISSION	14,096	6,625	47.0	16,106	7,595	47.2	18,744	7,840	41.8
OFFICE OF PERSONNEL MANAGEMENT	3,698	3,698	100.0	5,907	5,907	100.0	4,916	4,916	100.0
SMITHSONIAN INSTITUTION	36,557	26,853	73.5	41,575	29,753	71.6	45,989	31,071	67.6
TENNESSEE VALLEY AUTHORITY	62,100	28,480	45.9	70,600	38,440	54.4	71,400	39,040	54.7
US ARMS CONTROL & DISARMAMENT AGENCY .	933	534	57.2	485	244	50.3	946	473	50.0
US INTERNATIONAL TRADE COMMISSION	2,068	1,592	77.0	2,984	2,319	77.7	3,926	2,945	75.0
VETERANS ADMINISTRATION	131,800	93,156	70.7	144,300	96,690	67.0	151,287	91,840	60.7

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-105. FEDERAL OBLIGATIONS FOR TOTAL BASIC RESEARCH TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1980, 1981, AND 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1980			ESTIMATES					
				1981			1982		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
TOTAL, ALL AGENCIES	1,193,332	650,733	54.5%	1,289,146	702,522	54.5%	1,424,158	753,020	52.9%
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	179,538	105,312	58.7	211,425	122,559	58.0	231,105	125,400	54.3
ECONOMICS & STATISTICS SERVICE	5,980	3,874	64.8	7,587	4,552	60.0	8,136	4,546	55.9
FOREST SERVICE	28,328	23,304	82.3	30,896	25,495	82.5	33,586	27,942	83.2
OFF OF INTERNAT'L COOPERATION & DEV	334	201	60.2	372	224	60.2	408	246	60.3
SCIENCE & EDUCATION ADMINISTRATION	144,896	77,933	53.8	172,570	92,288	53.5	188,975	92,666	49.0
AGRICULTURAL RESEARCH	142,185	75,222	52.9	169,664	89,382	52.7	185,456	89,147	48.1
AGRICULTURAL COOPERATIVE RESEARCH	2,711	2,711	100.0	2,906	2,906	100.0	3,519	3,519	100.0
DEPARTMENT OF COMMERCE, TOTAL	23,444	13,871	59.2	27,471	15,066	54.8	31,914	16,089	50.4
BUREAU OF THE CENSUS	187	103	55.1	259	198	76.4	257	198	77.0
ECONOMIC DEVELOPMENT ADMINISTRATION	2	1	50.0	2	1	50.0	-	-	-
MARITIME ADMINISTRATION	200	142	71.0	70	61	87.1	50	42	84.0
NATIONAL BUREAU OF STANDARDS	12,159	8,633	71.0	15,274	9,472	62.0	18,046	9,649	53.5
NAT'L OCEANIC & ATMOSPHERIC ADMIN	10,867	4,962	45.7	11,861	5,329	44.9	13,561	6,200	45.7
OFFICE OF THE SECRETARY	30	30	100.0	5	5	100.0	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	198,696	115,167	58.0	215,855	127,109	58.9	255,384	148,229	58.0
DEPARTMENT OF THE ARMY	82,544	51,786	62.7	87,411	58,170	66.5	107,470	69,110	64.3
DEPARTMENT OF THE NAVY	82,259	39,295	47.8	91,472	41,126	45.0	98,846	44,441	45.0
DEPARTMENT OF THE AIR FORCE	24,284	17,600	72.5	26,130	20,635	79.0	34,495	24,836	72.0
DEFENSE AGENCIES	9,609	6,486	67.5	10,842	7,177	66.2	14,573	9,842	67.5
DEPARTMENT OF EDUCATION, TOTAL	525	373	71.0	500	355	71.0	500	355	71.0
DEPARTMENT OF ENERGY	5,646	2,900	51.4	6,831	2,832	41.5	8,099	4,260	52.6
DEPT OF HLTH & HUMAN SERVICES, TOTAL	352,882	172,260	47.5	383,600	185,050	48.2	419,386	197,413	47.1
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	36,717	17,636	48.0	41,452	19,505	47.1	56,873	22,878	40.2
HEALTH SERVICES ADMINISTRATION	2,032	1,761	86.7	1,650	1,431	86.7	-	-	-
NATIONAL INSTITUTES OF HEALTH	319,641	150,122	47.0	335,300	160,944	48.0	359,749	172,680	48.0
OFFICE OF ASST'T SECY FOR HEALTH	4,392	2,691	61.3	5,097	3,120	61.2	2,714	1,805	66.5
OFFICE OF THE SECRETARY	100	50	50.0	101	50	49.5	50	50	100.0
DEPARTMENT OF THE INTERIOR, TOTAL	61,797	37,383	60.5	69,680	42,027	60.3	76,413	45,637	59.7
BUREAU OF MINES	11,500	9,800	85.2	12,400	10,500	84.7	13,700	11,600	84.7
GEOLOGICAL SURVEY	44,919	23,448	52.2	52,017	27,153	52.2	58,350	30,459	52.2
OFFICE OF THE SECRETARY	930	735	79.0	991	944	95.3	840	793	94.4
OFFICE OF WATER RSCH & TECHNOLOGY	800	500	62.5	272	250	91.9	-	-	-
US FISH & WILDLIFE SERVICE	3,449	2,760	80.0	3,800	3,040	80.0	3,393	2,715	80.0
WATER AND POWER RESOURCES SERVICE	200	140	70.0	200	140	70.0	130	70	53.8
DEPARTMENT OF JUSTICE, TOTAL	80	30	37.5	55	21	38.2	200	65	32.5
OFF OF JUSTICE ASSIST, RSCH, & STAT	80	30	37.5	55	21	38.2	200	65	32.5
DEPARTMENT OF LABOR, TOTAL	1,246	78	6.3	926	189	20.4	1,186	1,186	100.0
EMPLOYMENT & TRAINING ADMIN	1,246	78	6.3	926	189	20.4	1,186	1,186	100.0
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	500	100	20.0	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	-	-	-	500	100	20.0	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	1,573	1,492	94.9	2,214	997	45.0	1,197	1,071	89.5
INTERNAL REVENUE SERVICE	1,573	1,492	94.9	2,214	997	45.0	1,197	1,071	89.5
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	6,070	3,895	64.2	6,496	4,586	70.6	5,930	4,178	70.5
FEDERAL EMERGENCY MANAGEMENT AGENCY	1,260	605	48.0	1,281	615	48.0	1,281	615	48.0
FEDERAL TRADE COMMISSION	1,495	1,495	100.0	2,051	1,597	77.9	2,153	1,699	78.9
LIBRARY OF CONGRESS	100	71	71.0	100	85	85.0	100	97	97.0
NATIONAL AERONAUTICS & SPACE ADMIN	225,454	116,647	51.7	224,351	113,934	50.7	248,056	121,468	49.0
NATIONAL SCIENCE FOUNDATION	68,086	38,154	56.0	74,380	40,908	55.0	75,210	40,140	53.4
SMITHSONIAN INSTITUTION	36,557	26,853	73.5	41,575	29,753	71.6	45,989	31,071	67.6
TENNESSEE VALLEY AUTHORITY	4,600	3,680	80.0	4,900	3,920	80.0	5,000	4,000	80.0
VETERANS ADMINISTRATION	14,275	10,463	73.3	14,955	10,922	73.0	15,055	10,057	66.8

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-106. FEDERAL OBLIGATIONS FOR TOTAL APPLIED RESEARCH TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1980, 1981, AND 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1980			ESTIMATES					
				1981			1982		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
TOTAL, ALL AGENCIES	2,472,949	1,467,850	59.4%	2,592,619	1,493,425	57.6%	2,770,733	1,526,359	55.1%
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	250,354	144,152	57.6	275,020	157,981	57.4	301,333	163,093	54.1
AGRICULTURAL COOPERATIVE SVC	1,419	1,110	78.2	2,069	1,495	72.3	2,114	1,642	77.7
AGRICULTURAL MARKETING SERVICE	950	732	77.1	1,081	832	77.0	1,109	854	77.0
ECONOMICS & STATISTICS SERVICE	23,376	13,735	58.8	26,898	16,139	60.0	28,732	16,117	56.1
FOREST SERVICE	67,549	43,089	63.8	74,061	47,129	63.6	81,346	51,653	63.5
OFF OF INTERNAT'L COOPERATION & DEV	373	225	60.3	406	245	60.3	435	262	60.2
SCIENCE & EDUCATION ADMINISTRATION	156,698	85,257	54.4	170,505	92,142	54.0	187,597	92,555	49.3
AGRICULTURAL RESEARCH	152,600	81,159	53.2	166,096	87,733	52.8	182,833	87,791	48.0
AGRICULTURAL COOPERATIVE RESEARCH	4,099	4,098	100.0	4,409	4,409	100.0	4,764	4,754	100.0
DEPARTMENT OF COMMERCE, TOTAL	159,299	106,881	67.1	163,900	74,915	45.7	165,176	72,670	44.0
BUREAU OF THE CENSUS	1,405	940	66.9	1,680	1,151	68.5	1,676	1,050	62.6
ECONOMIC DEVELOPMENT ADMINISTRATION	216	143	66.2	150	99	66.0	-	-	-
MARITIME ADMINISTRATION	1,825	1,300	71.2	1,830	1,600	87.4	1,650	1,400	84.8
NATIONAL BUREAU OF STANDARDS	44,879	32,911	73.3	48,040	36,114	75.2	54,649	36,960	67.6
NAT'L OCEANIC & ATMOSPHERIC ADMIN	101,319	64,531	63.7	102,010	28,513	28.0	97,841	26,427	27.0
NAT'L TELECOMM & INFORMATION ADMIN	9,625	7,026	73.0	10,189	7,439	73.0	9,360	6,833	73.0
OFFICE OF THE SECRETARY	30	30	100.0	1	1	100.0	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	651,693	429,982	66.0	699,514	451,801	64.6	785,738	503,946	64.1
DEPARTMENT OF THE ARMY	225,373	141,356	62.7	220,461	138,703	62.9	258,398	171,665	66.4
DEPARTMENT OF THE NAVY	183,551	116,830	63.6	201,177	99,301	49.4	215,105	106,176	49.4
DEPARTMENT OF THE AIR FORCE	132,555	111,197	83.9	148,426	142,943	96.3	151,438	145,834	96.3
DEFENSE AGENCIES	110,214	60,599	55.0	129,450	70,854	54.7	160,797	80,271	49.9
DEPARTMENT OF EDUCATION, TOTAL	1,881	1,564	83.1	2,239	1,857	82.9	616	525	85.2
DEPARTMENT OF ENERGY	75,125	25,910	34.5	60,854	20,272	33.3	85,267	21,380	25.1
DEPT OF HLTH & HUMAN SERVICES, TOTAL	386,068	228,611	59.2	387,252	229,657	59.3	402,483	211,074	52.4
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	26,589	12,771	48.0	30,017	14,124	47.1	41,184	16,567	40.2
CENTERS FOR DISEASE CONTROL	66,693	56,689	85.0	62,481	53,109	85.0	58,708	27,886	47.5
FOOD & DRUG ADMINISTRATION	59,824	38,885	65.0	59,708	38,810	65.0	60,108	39,070	65.0
HEALTH CARE FINANCING ADMIN	5,750	719	12.5	3,150	395	12.5	3,150	395	12.5
HEALTH RESOURCES ADMINISTRATION	154	105	68.2	155	105	67.7	-	-	-
HEALTH SERVICES ADMINISTRATION	2,007	1,718	85.6	1,740	1,488	85.5	300	228	75.0
NATIONAL INSTITUTES OF HEALTH	201,705	102,766	50.9	207,934	105,214	50.6	221,050	111,851	50.6
OFFICE OF ASST'T SECY FOR HEALTH	5,465	3,370	61.7	6,270	3,864	61.6	3,799	2,526	66.5
OFF OF HUMAN DEVELOPMENT SERVICES	1,223	903	73.8	1,191	965	81.0	431	391	90.7
OFFICE OF THE SECRETARY	1,944	500	25.7	1,950	500	25.6	1,200	500	41.7
SOCIAL SECURITY ADMINISTRATION	14,714	10,185	69.2	12,656	11,084	87.6	12,554	11,660	92.9
DEPT OF HOUSING & URBAN DEVELOPMENT	11,986	6,952	58.0	11,652	6,525	56.0	12,482	7,115	57.0
DEPARTMENT OF THE INTERIOR, TOTAL	157,648	102,203	64.8	172,571	107,040	62.0	173,077	108,540	62.7
BUREAU OF LAND MANAGEMENT	584	385	65.9	508	400	78.7	480	415	86.5
BUREAU OF MINES	36,200	29,000	80.1	34,000	27,200	80.0	33,000	26,400	80.0
GEOLOGICAL SURVEY	84,834	45,067	53.1	97,095	51,117	52.6	102,887	54,140	52.6
NATIONAL PARK SERVICE	5,995	4,136	69.0	7,777	3,791	48.7	7,371	4,343	58.9
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	666	350	52.6	464	382	82.3	442	397	89.8
OFFICE OF WATER RSCH & TECHNOLOGY	400	300	75.0	174	150	86.2	-	-	-
US FISH & WILDLIFE SERVICE	23,331	18,665	80.0	24,370	19,500	80.0	22,932	18,345	80.0
WATER AND POWER RESOURCES SERVICE	5,638	4,300	76.3	8,183	4,500	55.0	5,965	4,500	75.4
DEPARTMENT OF JUSTICE, TOTAL	1,029	519	50.4	630	325	51.6	663	407	61.4
DRUG ENFORCEMENT ADMINISTRATION	100	100	100.0	100	100	100.0	200	200	100.0
FEDERAL PRISON SYSTEM	57	57	100.0	57	57	100.0	57	57	100.0
IMMIGRATION & NATURALIZATION SVC	56	38	67.9	56	11	19.6	56	25	44.6
OFFICE OF THE ATTORNEY GENERAL	170	80	47.1	100	50	50.0	100	50	50.0
OFF OF JUSTICE ASSIST, RSCH, & STAT	646	244	37.8	317	107	33.8	250	75	30.0
DEPARTMENT OF LABOR, TOTAL	8,735	4,637	53.1	8,185	4,662	57.0	6,353	5,026	79.1
BUREAU OF LABOR STATISTICS	860	774	90.0	838	754	90.0	879	791	90.0
EMPLOYMENT STANDARDS ADMINISTRATION	3,900	900	23.1	3,200	900	28.1	1,400	900	64.3
EMPLOYMENT & TRAINING ADMIN	941	805	85.5	1,486	1,086	73.1	1,272	1,272	100.0
LABOR-MANAGEMENT SERVICES ADMIN	1,312	623	47.5	1,409	670	47.6	1,409	670	47.6
OCCUPATIONAL SAFETY & HEALTH ADMIN	607	607	100.0	240	240	100.0	332	332	100.0
OFFICE OF THE SECRETARY	1,115	928	83.2	1,012	1,012	100.0	1,061	1,061	100.0
DEPARTMENT OF STATE, TOTAL	771	510	66.1	647	590	91.2	747	690	92.4
DEPARTMENTAL FUNDS	771	510	66.1	647	590	91.2	747	690	92.4

CONTINUED ON NEXT PAGE

TABLE C-106. FEDERAL OBLIGATIONS FOR TOTAL APPLIED RESEARCH TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1980, 1981, AND 1982

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	ACTUAL, 1980			ESTIMATES					
				1981			1982		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
DEPARTMENT OF TRANSPORTATION, TOTAL ..	28,651	14,196	49.5%	29,030	16,439	56.6%	37,377	18,839	50.4%
COAST GUARD	2,800	1,100	39.3	2,000	500	25.0	10,400	2,800	26.9
FEDERAL AVIATION ADMINISTRATION	1,804	992	55.0	2,090	1,151	55.1	1,980	1,089	55.0
FEDERAL HIGHWAY ADMINISTRATION	1,173	972	82.9	1,273	972	76.4	1,273	972	76.4
FEDERAL RAILROAD ADMINISTRATION	6,085	3,508	57.6	6,535	3,594	55.0	5,446	3,050	56.0
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	11,817	5,233	44.3	11,742	7,582	64.6	11,413	7,500	65.7
OFFICE OF THE SECRETARY	210	110	52.4	240	115	47.9	240	115	47.9
RESEARCH & SPECIAL PROGRAMS ADMIN ..	2,561	1,281	50.0	3,050	1,525	50.0	4,225	2,113	50.0
URBAN MASS TRANSPORTATION ADMIN	2,201	1,000	45.4	2,100	1,000	47.6	2,400	1,200	50.0
DEPARTMENT OF THE TREASURY, TOTAL	2,931	1,565	53.4	3,363	1,773	52.7	3,904	1,795	46.0
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	80	80	100.0	50	50	100.0	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	1,100	541	49.2	1,588	568	35.8	1,508	597	39.6
CUSTOMS SERVICE	100	10	10.0	100	10	10.0	100	10	10.0
INTERNAL REVENUE SERVICE	1,651	934	56.6	1,625	1,145	70.5	2,296	1,188	51.7
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,219	1,080	48.7	1,827	1,193	65.3	2,028	1,220	60.2
APPALACHIAN REGIONAL COMMISSION	50	35	70.0	10	7	70.0	50	35	70.0
COMMUNITY SERVICES ADMINISTRATION	25	25	100.0	20	20	100.0	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	672	142	21.1	261	36	13.8	210	29	13.8
ENVIRONMENTAL PROTECTION AGENCY	100,244	40,322	40.2	109,773	43,631	39.7	81,305	31,083	38.2
FEDERAL COMMUNICATIONS COMMISSION	2,196	2,196	100.0	1,858	1,858	100.0	1,655	1,655	100.0
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	2,376	1,140	48.0	3,534	1,696	48.0	4,526	2,172	48.0
FEDERAL HOME LOAN BANK BOARD	1,227	579	47.2	1,125	634	56.4	1,276	653	51.2
FEDERAL TRADE COMMISSION	1,526	1,072	70.2	2,115	1,661	78.5	2,222	1,768	79.6
GENERAL SERVICES ADMINISTRATION	1	1	100.0	50	35	70.0	100	75	75.0
INTERNATIONAL COMMUNICATION AGENCY ...	80	54	67.5	124	84	67.7	14	9	64.3
INTERNAT'L DEV COOPERATION AGENCY	5,316	3,816	71.8	7,500	5,625	75.0	8,170	6,170	75.5
AGENCY FOR INTERNAT'L DEVELOPMENT ..	5,316	3,816	71.8	7,500	5,625	75.0	8,170	6,170	75.5
INTERSTATE COMMERCE COMMISSION	143	143	100.0	175	175	100.0	150	150	100.0
LIBRARY OF CONGRESS	500	224	44.8	500	262	52.4	500	266	53.2
NATIONAL AERONAUTICS & SPACE ADMIN ...	484,759	255,657	52.7	498,178	265,405	53.3	529,929	270,215	51.0
NATIONAL SCIENCE FOUNDATION	6,963	3,300	47.4	6,589	3,500	53.1	6,899	3,500	50.7
NUCLEAR REGULATORY COMMISSION	14,096	6,625	47.0	16,106	7,595	47.2	18,744	7,840	41.8
OFFICE OF PERSONNEL MANAGEMENT	2,211	2,211	100.0	3,752	3,752	100.0	2,552	2,552	100.0
TENNESSEE VALLEY AUTHORITY	6,000	4,800	80.0	6,900	5,520	80.0	8,800	7,040	80.0
US ARMS CONTROL & DISARMAMENT AGENCY .	885	504	56.9	458	229	50.0	946	473	50.0
US INTERNATIONAL TRADE COMMISSION	2,068	1,592	77.0	2,984	2,319	77.7	3,926	2,945	75.0
VETERANS ADMINISTRATION	103,203	74,650	72.3	113,922	74,347	65.3	121,515	71,419	58.8

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE C-107. FEDERAL OBLIGATIONS FOR TOTAL DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1980, 1981, AND 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1980			ESTIMATES					
				1981			1982		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
TOTAL, ALL AGENCIES	4,263,130	1,902,334	44.6%	5,136,081	2,100,944	40.9%	5,800,904	2,311,272	39.8%
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	27,276	15,559	57.0	28,377	16,816	59.3	30,666	17,086	55.7
AGRICULTURAL MARKETING SERVICE	277	213	76.9	277	213	76.9	277	213	76.9
FOREST SERVICE	5,476	4,237	77.4	6,000	4,635	77.2	6,700	5,080	75.8
OFF OF INTERNAT'L COOPERATION & DEV	53	32	60.4	68	41	60.3	63	38	60.3
OFFICE OF TRANSPORTATION	767	66	8.6	844	734	87.0	1,093	950	86.9
SCIENCE & EDUCATION ADMINISTRATION	20,703	11,011	53.2	21,188	11,193	52.8	22,533	10,805	48.0
AGRICULTURAL RESEARCH	20,703	11,011	53.2	21,188	11,193	52.8	22,533	10,805	48.0
DEPARTMENT OF COMMERCE, TOTAL	42,764	27,109	63.4	43,604	28,320	64.9	44,568	28,040	62.9
BUREAU OF THE CENSUS	1,240	669	54.0	1,341	750	55.9	1,453	815	56.1
ECONOMIC DEVELOPMENT ADMINISTRATION	1,150	759	66.0	1,000	660	66.0	-	-	-
MARITIME ADMINISTRATION	200	142	71.0	100	87	87.0	100	85	85.0
NATIONAL BUREAU OF STANDARDS	14,291	9,712	68.0	14,769	10,657	72.2	15,297	10,906	71.3
NAT'L OCEANIC & ATMOSPHERIC ADMIN	24,351	14,658	60.2	24,272	14,493	59.7	26,059	14,954	57.4
NAT'L TELECOMM & INFORMATION ADMIN	1,069	780	73.0	1,008	736	73.0	1,040	759	73.0
OFFICE OF THE SECRETARY	3	3	100.0	-	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	460	386	83.9	1,114	937	84.1	619	521	84.2
DEPARTMENT OF DEFENSE, TOTAL	2,946,097	1,223,246	41.5	3,693,367	1,376,606	37.3	4,544,760	1,630,214	35.9
DEPARTMENT OF THE ARMY	817,295	377,720	46.2	963,213	417,943	43.4	1,152,953	478,398	41.5
DEPARTMENT OF THE NAVY	1,037,921	497,683	47.9	1,182,531	549,450	46.5	1,233,106	572,901	46.5
DEPARTMENT OF THE AIR FORCE	897,967	279,182	31.1	1,320,176	313,472	23.7	1,774,915	421,364	23.7
DEFENSE AGENCIES	159,943	67,761	42.4	194,880	94,691	48.6	340,327	156,301	45.9
DIRECTOR OF TEST & EVALUATION, DEFENSE	32,971	900	2.7	32,567	1,050	3.2	43,459	1,250	2.9
DEPARTMENT OF EDUCATION, TOTAL	1,639	701	42.8	1,445	517	35.8	400	375	93.8
DEPARTMENT OF ENERGY	392,827	102,423	26.1	449,044	88,587	19.7	273,427	66,757	24.4
DEPT OF HLTH & HUMAN SERVICES, TOTAL	71,205	42,220	59.3	71,406	45,242	63.4	72,234	45,305	62.7
HEALTH SERVICES ADMINISTRATION	2,400	2,078	86.6	3,065	2,647	86.4	800	611	76.4
NATIONAL INSTITUTES OF HEALTH	65,732	38,046	57.9	64,959	40,235	61.9	68,767	42,567	61.9
OFFICE OF ASST'T SECY FOR HEALTH	1,646	1,020	62.0	1,870	1,158	61.9	1,240	825	66.5
OFF OF HUMAN DEVELOPMENT SERVICES	1,427	1,076	75.4	1,512	1,202	79.5	1,427	1,302	91.2
DEPT OF HOUSING & URBAN DEVELOPMENT	868	312	35.9	768	253	32.9	737	258	35.0
DEPARTMENT OF THE INTERIOR, TOTAL	22,626	18,320	81.0	23,858	18,985	79.6	22,200	17,715	79.8
BUREAU OF LAND MANAGEMENT	132	35	26.5	150	55	36.7	170	65	38.2
BUREAU OF MINES	8,328	6,600	79.3	9,0[illegible]	7,200	80.0	9,000	7,200	80.0
GEOLOGICAL SURVEY	10	5	50.0	-	-	-	10	5	50.0
OFFICE OF WATER RSCH & TECHNOLOGY	600	500	83.3	593	500	84.3	-	-	-
US FISH & WILDLIFE SERVICE	12,756	10,680	83.7	13,415	10,730	80.0	12,555	10,045	80.0
WATER AND POWER RESOURCES SERVICE	800	500	62.5	700	500	71.4	465	400	86.0
DEPARTMENT OF JUSTICE, TOTAL	1,760	1,234	70.1	1,348	949	70.4	1,087	856	78.7
DRUG ENFORCEMENT ADMINISTRATION	500	500	100.0	400	400	100.0	400	400	100.0
FEDERAL BUREAU OF INVESTIGATION	215	215	100.0	275	275	100.0	275	275	100.0
FEDERAL PRISON SYSTEM	50	50	100.0	50	50	100.0	50	50	100.0
IMMIGRATION & NATURALIZATION SVC	56	38	67.9	56	11	19.6	56	25	44.6
OFFICE OF THE ATTORNEY GENERAL	10	10	100.0	-	-	-	6	6	100.0
OFF OF JUSTICE ASSIST, RSCH, & STAT	929	421	45.3	567	213	37.6	300	100	33.3
DEPARTMENT OF LABOR, TOTAL	2,171	2,053	94.6	1,723	1,723	100.0	609	609	100.0
EMPLOYMENT & TRAINING ADMIN	2,171	2,053	94.6	1,723	1,723	100.0	609	609	100.0
DEPARTMENT OF STATE, TOTAL	70	10	14.3	45	6	13.3	-	-	-
DEPARTMENTAL FUNDS	70	10	14.3	45	6	13.3	-	-	-

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TABLE C-107. FEDERAL OBLIGATIONS FOR TOTAL DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1980, 1981, AND 1982

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	ACTUAL, 1980			ESTIMATES					
				1981			1982		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
DEPARTMENT OF TRANSPORTATION, TOTAL ..	84,820	46,365	54.7%	93,186	48,481	52.0%	96,124	49,783	51.8%
COAST GUARD	3,200	1,900	59.4	5,000	2,000	40.0	7,800	2,100	26.9
FEDERAL AVIATION ADMINISTRATION	22,776	12,527	55.0	26,544	14,599	55.0	26,856	14,771	55.0
FEDERAL HIGHWAY ADMINISTRATION	10,674	7,128	66.8	11,591	7,128	61.5	11,591	7,128	61.5
FEDERAL RAILROAD ADMINISTRATION	9,575	5,841	61.0	11,097	5,992	54.0	9,180	5,600	61.0
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	1,105	373	33.8	1,291	426	33.0	1,520	452	29.7
OFFICE OF THE SECRETARY	5,578	2,397	43.0	5,037	2,162	42.9	5,092	2,217	43.5
RESEARCH & SPECIAL PROGRAMS ADMIN ..	6,044	4,559	75.4	5,626	4,174	74.2	6,085	4,515	74.2
URBAN MASS TRANSPORTATION ADMIN	25,868	11,640	45.0	27,000	12,000	44.4	28,000	13,000	46.4
DEPARTMENT OF THE TREASURY, TOTAL	948	439	46.3	1,920	420	21.9	2,496	365	14.6
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	82	82	100.0	54	54	100.0	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	700	281	40.1	1,691	295	17.4	2,338	310	13.3
CUSTOMS SERVICE	100	10	10.0	113	9	8.0	89	9	10.1
INTERNAL REVENUE SERVICE	56	56	100.0	58	58	100.0	64	41	64.1
OFFICE OF PROTECTIVE RESEARCH	10	10	100.0	4	4	100.0	5	5	100.0
OTHER AGENCIES									
APPALACHIAN REGIONAL COMMISSION	10	8	80.0	75	60	80.0	50	35	70.0
COMMUNITY SERVICES ADMINISTRATION	1,500	1,500	100.0	1,500	1,500	100.0	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	1,178	165	14.0	930	130	14.0	744	104	14.0
ENVIRONMENTAL PROTECTION AGENCY	38,790	13,950	36.0	40,733	14,695	36.1	25,708	8,156	31.7
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	1,487	714	48.0	1,467	704	48.0	1,467	704	48.0
GENERAL SERVICES ADMINISTRATION	1	1	100.0	-	-	-	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	5	3	60.0	33	22	66.7	3	2	66.7
INTERNAT'L DEV COOPERATION AGENCY	230	230	100.0	50	50	100.0	250	250	100.0
AGENCY FOR INTERNAT'L DEVELOPMENT ..	230	230	100.0	50	50	100.0	250	250	100.0
LIBRARY OF CONGRESS	5,800	3,800	65.5	5,300	4,300	81.1	5,700	4,700	82.5
NATIONAL AERONAUTICS & SPACE ADMIN ...	551,637	372,382	67.5	599,437	409,957	68.4	602,993	399,230	66.2
NATIONAL SCIENCE FOUNDATION	64	30	46.9	60	30	50.0	-	-	-
OFFICE OF PERSONNEL MANAGEMENT	1,487	1,487	100.0	2,155	2,155	100.0	2,364	2,364	100.0
TENNESSEE VALLEY AUTHORITY	51,500	20,000	38.8	58,800	29,000	49.3	57,600	28,000	48.6
US ARMS CONTROL & DISARMAMENT AGENCY .	48	30	62.5	27	15	55.6	-	-	-
VETERANS ADMINISTRATION	14,322	8,043	56.2	15,423	11,421	74.1	14,717	10,364	70.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-108. FEDERAL OUTLAYS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1972-82

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1972	1973	1974	1975	1976	1977	1978	1979	1980	ESTIMATES	
										1981	1982
TOTAL, ALL AGENCIES	16,727.1	17,488.8	18,297.1	19,550.8	21,020.9	23,379.1	25,678.9	27,842.2	31,891.7	35,276.6	39,752.3
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	357.9	357.1	381.5	425.6	468.8	537.8	572.4	630.5	687.6	799.4	875.9
AGRICULTURAL COOPERATIVE SVC ..	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.6	2.5	2.5
ECON, STAT & COOPERATIVES SVC .	N/A	N/A	N/A	N/A	N/A	30.5	32.4	35.6	N/A	N/A	N/A
ECONOMIC RESEARCH SVC	16.8	15.2	18.1	22.2	23.6	N/A	N/A	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	1.1	1.1	1.2	1.2	1.4	N/A	N/A	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.7	.7	.6	1.2	2.0	N/A	N/A	N/A	N/A	N/A	N/A
ECONOMICS & STATISTICS SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31.1	36.6	39.0
FOREST SERVICE	56.5	58.3	65.6	72.5	90.3	92.5	86.7	105.7	100.6	113.4	135.5
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	N/A	414.7	453.3	487.8	545.8	638.1	689.8
AGRICULTURAL RESEARCH	208.7	199.3	210.5	232.8	247.4	294.6	318.4	331.2	371.6	437.0	461.2
COOPERATIVE RESEARCH	73.7	82.1	85.2	95.6	104.2	120.2	134.9	156.6	174.2	201.2	228.5
TECHNICAL INFO SYSTEMS	.3	.3	.2	.1	*	-	-	-	-	-	-
OTHER AGRICULTURE	-	-	-	-	-	-	-	1.4	8.5	8.8	9.2
DEPARTMENT OF COMMERCE, TOTAL ...	168.2	186.2	188.2	224.6	233.3	238.2	272.7	307.1	360.6	360.2	332.2
NATIONAL BUREAU OF STANDARDS ..	34.7	36.8	42.5	47.2	49.1	53.1	59.0	64.8	77.1	83.4	99.1
NAT'L OCEANIC & ATMOS ADMIN ...	109.7	114.4	109.5	127.7	134.5	132.6	164.7	190.1	210.6	215.0	195.3
OTHER COMMERCE	23.8	34.9	36.3	49.7	49.8	52.5	48.9	52.2	72.9	61.8	37.9
DEPARTMENT OF DEFENSE, TOTAL	8,297.2	8,597.6	8,979.7	9,363.5	9,445.5	10,308.0	10,935.4	11,733.1	13,706.1	15,845.3	19,878.7
DEPARTMENT OF THE ARMY	1,889.8	2,042.4	2,308.6	2,083.0	1,969.6	2,195.0	2,464.3	2,536.2	2,852.9	3,145.1	3,722.3
DEPARTMENT OF THE NAVY	2,501.5	2,498.9	2,715.8	3,126.3	3,320.1	3,582.6	3,919.4	3,926.4	4,507.9	5,082.7	5,639.1
DEPARTMENT OF THE AIR FORCE ...	3,426.2	3,588.5	3,442.3	3,567.6	3,625.2	3,902.2	3,969.9	4,428.0	5,323.6	6,393.5	8,872.2
DEFENSE AGENCIES	475.7	461.3	485.2	556.9	507.5	610.5	555.1	814.2	981.4	1,185.0	1,601.0
DEFENSE CIVIL PREPAREDNESS AGENCY	4.0	3.0	2.3	3.0	2.2	1.2	2.9	N/A	N/A	N/A	N/A
DIRECTOR OF TEST & EVALUATION .	N/A	3.4	25.5	26.8	20.9	16.5	23.9	28.3	40.4	39.0	44.0
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	3,593.1	4,413.0	4,956.8	5,660.2	6,104.5	5,815.1
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,554.5	1,878.4	1,960.6	2,168.2	2,615.0	2,622.2	3,070.2	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	112.6	127.3	114.1	145.1	167.2	179.9	N/A	N/A	N/A	N/A
HLTH SVCS & MENTAL HLTH ADMIN .	236.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION ..	-	35.8	96.9	82.8	69.8	59.7	74.8	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH .	1,112.1	1,373.7	1,435.4	1,684.4	2,118.4	2,105.0	2,507.1	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	108.0	102.2	66.3	53.1	56.8	30.3	25.8	N/A	N/A	N/A	N/A
OTHER HEW	97.5	254.1	234.6	233.8	225.0	260.1	282.6	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,172.7	3,554.1	3,717.4	3,947.0
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	184.7	218.1	218.4	215.8
NATIONAL INSTITUTES OF HEALTH .	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2,713.4	3,029.3	3,178.7	3,431.4
OTHER HHS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	274.5	306.8	320.3	299.9
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	50.1	47.8	58.4	58.7	60.3	69.0	59.3	74.3	65.8	58.1	46.4
DEPT OF THE INTERIOR, TOTAL	213.0	254.1	194.8	266.0	319.7	304.0	339.9	404.3	431.5	432.4	394.9
BUREAU OF MINES	66.2	68.6	66.7	82.7	113.7	103.7	104.2	121.4	130.8	127.4	106.8
GEOLOGICAL SURVEY	50.2	62.7	68.7	95.2	115.7	112.2	128.7	144.2	145.2	153.8	171.2
OTHER INTERIOR	96.6	122.8	59.4	88.1	90.4	88.1	107.0	138.7	155.5	151.2	116.9
DEPARTMENT OF JUSTICE, TOTAL	11.9	22.2	40.5	43.8	39.9	33.7	33.5	45.9	45.3	41.7	34.0
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	9.6	19.9	34.5	39.2	35.2	27.6	27.1	35.5	35.1	31.5	27.8
OTHER JUSTICE	2.3	2.3	6.0	4.6	4.7	6.2	6.3	10.4	10.2	10.2	6.2
DEPARTMENT OF LABOR, TOTAL	23.0	18.3	22.5	25.4	27.8	28.1	97.6	109.2	137.7	107.2	36.8
DEPARTMENT OF STATE, TOTAL	21.7	20.8	24.8	28.6	27.0	44.1	57.5	3.2	2.2	1.9	1.8
AGENCY FOR INTERNAT'L DEVMNT ..	21.2	19.3	23.2	27.4	25.4	41.8	54.6	N/A	N/A	N/A	N/A
OTHER STATE	.6	1.5	1.6	1.2	1.6	2.3	2.8	3.2	2.2	1.9	1.8
DEPT OF TRANSPORTATION, TOTAL ...	287.0	337.3	363.7	339.2	335.7	363.5	377.3	372.4	391.0	393.8	380.5
FEDERAL AVIATION ADMIN	107.1	88.6	115.8	113.7	114.6	102.8	100.2	111.4	109.7	129.2	114.6
FEDERAL HIGHWAY ADMIN	23.3	23.5	33.5	26.8	42.9	53.0	52.9	48.9	53.4	53.2	51.2
FEDERAL RAILROAD ADMIN	22.5	41.4	38.3	51.1	48.5	57.3	62.4	58.0	63.5	45.1	44.9
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	34.8	47.6	44.4	36.2	33.8	49.5	68.5	53.6	60.3	62.2	65.7
URBAN MASS TRANS ADMIN	60.8	72.2	57.8	60.9	48.2	52.1	52.5	50.5	58.9	52.5	50.8
OTHER TRANSPORTATION	38.6	63.9	73.9	50.6	47.7	48.8	40.8	49.9	45.2	51.6	53.3
DEPT OF THE TREASURY, TOTAL	1.3	1.0	1.1	1.7	3.8	5.0	9.9	9.6	10.9	13.1	14.1

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TABLE C-108. FEDERAL OUTLAYS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1972-82

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1972	1973	1974	1975	1976	1977	1978	1979	1980	ESTIMATES	
										1981	1982
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	1,551.3	1,624.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	N/A	1,825.0	2,246.6	2,553.7	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	133.8	147.7	172.2	218.6	265.6	283.0	312.5	388.9	384.7	343.7	327.2
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	80.3	114.3	168.3	163.1
NAT'L AERONAUTICS & SPACE ADMIN .	3,422.9	3,315.2	3,256.2	3,266.5	3,669.0	3,945.3	3,983.1	4,196.5	4,851.6	5,274.0	5,895.2
NATIONAL SCIENCE FOUNDATION	435.0	470.9	584.7	600.4	669.1	674.7	738.6	804.6	848.2	909.1	920.1
NUCLEAR REGULATORY COMMISSION ...	N/A	N/A	46.1	58.5	76.9	107.8	131.7	145.4	182.8	207.5	222.7
OFFICE OF ECONOMIC OPPORTUNITY ..	81.2	76.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	76.1	82.8	85.7	97.0	109.5	112.8	123.9	123.1	138.6	146.9	159.3
ALL OTHER AGENCIES	41.1	50.2	111.3	117.9	100.0	109.0	150.5	148.1	187.5	218.0	216.7

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-109. FEDERAL OUTLAYS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1972-82

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1972	1973	1974	1975	1976	1977	1978	1979	1980	ESTIMATES	
										1981	1982
TOTAL, ALL AGENCIES	16,162.7	16,850.4	17,592.5	18,721.2	20,220.2	22,578.9	24,571.1	26,639.4	30,400.1	33,667.8	33,277.4
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	348.1	348.5	375.6	417.7	460.0	515.3	553.8	608.7	659.9	748.6	844.3
AGRICULTURAL COOPERATIVE SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.6	2.5	2.5
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	N/A	30.5	32.4	35.6	N/A	N/A	N/A
ECONOMIC RESEARCH SVC	16.8	15.2	18.1	22.2	23.6	N/A	N/A	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	1.1	1.1	1.2	1.2	1.4	N/A	N/A	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.7	.7	.6	1.2	2.0	N/A	N/A	N/A	N/A	N/A	N/A
ECONOMICS & STATISTICS SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31.1	36.6	39.0
FOREST SERVICE	55.2	54.7	63.3	68.6	86.9	89.0	84.6	102.2	97.0	110.2	134.1
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	N/A	395.7	436.8	469.5	521.7	590.6	659.5
AGRICULTURAL RESEARCH	200.9	194.7	207.1	228.8	242.0	275.6	301.9	312.9	347.5	389.4	430.9
COOPERATIVE RESEARCH	73.1	81.8	85.0	95.5	104.2	120.1	134.9	156.6	174.2	201.2	228.6
TECHNICAL INFO SYSTEMS	.3	.3	.2	.1	*	-	-	-	-	-	-
OTHER AGRICULTURE	-	-	-	-	-	-	-	1.4	8.5	8.8	9.2
DEPARTMENT OF COMMERCE, TOTAL	164.1	180.4	176.3	214.1	225.5	232.5	269.2	305.2	355.9	358.9	326.3
NATIONAL BUREAU OF STANDARDS	33.7	35.6	40.7	45.3	48.0	52.6	58.1	63.4	76.8	82.8	93.2
NAT'L OCEANIC & ATMOS ADMIN	107.0	110.9	101.6	119.8	129.4	131.2	162.5	190.1	206.7	214.7	195.3
OTHER COMMERCE	23.5	33.9	34.0	49.0	48.1	48.8	48.6	51.7	72.3	61.4	37.9
DEPARTMENT OF DEFENSE, TOTAL	8,138.8	8,440.6	8,814.9	9,210.6	9,301.3	10,182.4	10,622.8	11,497.3	13,501.4	15,635.3	19,647.3
DEPARTMENT OF THE ARMY	1,859.4	1,996.4	2,277.2	2,053.1	1,949.0	2,180.2	2,457.5	2,534.1	2,845.3	3,138.2	3,712.2
DEPARTMENT OF THE NAVY	2,462.1	2,466.4	2,668.3	3,078.5	3,260.8	3,519.0	3,870.3	3,873.5	4,417.0	4,995.5	5,534.2
DEPARTMENT OF THE AIR FORCE	3,362.6	3,533.1	3,374.1	3,513.1	3,568.1	3,862.2	3,719.8	4,263.1	5,220.6	6,281.5	8,763.2
DEFENSE AGENCIES	450.7	438.3	467.4	536.2	500.3	603.3	548.5	798.3	978.2	1,181.1	1,596.1
DEFENSE CIVIL PREPAREDNESS AGENCY	4.0	3.0	2.3	3.0	2.2	1.2	2.9	N/A	N/A	N/A	N/A
DIRECTOR OF TEST & EVALUATION	N/A	3.4	25.5	26.8	20.9	16.5	23.9	28.3	40.4	39.0	44.0
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	3,166.0	3,931.7	4,303.3	4,697.5	5,011.5	4,858.0
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,516.7	1,815.7	1,927.3	2,082.3	2,562.6	2,576.6	3,002.2	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	112.6	127.3	114.1	145.1	167.2	179.9	N/A	N/A	N/A	N/A
HLTH SVCS & MENTAL HLTH ADMIN	236.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	-	35.8	96.9	82.8	69.8	59.7	74.8	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	1,087.4	1,333.3	1,407.6	1,602.8	2,066.5	2,063.7	2,440.3	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	94.9	94.0	62.8	53.1	56.8	30.3	25.8	N/A	N/A	N/A	N/A
OTHER HEW	97.5	240.0	232.8	229.5	224.5	255.8	281.4	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,099.3	3,477.2	3,676.7	3,903.9
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	184.4	217.9	217.4	214.5
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2,641.0	2,953.2	3,140.9	3,394.0
OTHER HHS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	273.9	306.1	318.3	295.4
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	50.1	47.8	58.4	58.7	60.3	69.0	59.3	74.3	65.8	58.1	46.4
DEPT OF THE INTERIOR, TOTAL	208.2	237.4	192.8	263.6	319.0	299.5	332.3	395.3	422.7	428.6	394.2
BUREAU OF MINES	66.2	68.6	66.7	82.7	113.7	100.7	104.1	117.1	128.4	126.8	106.3
GEOLOGICAL SURVEY	50.2	62.1	68.3	95.2	115.7	112.2	128.7	144.2	145.2	153.8	171.2
OTHER INTERIOR	91.9	106.8	57.9	85.7	89.6	86.6	99.4	134.0	149.2	148.0	116.2
DEPARTMENT OF JUSTICE, TOTAL	11.9	22.2	40.5	43.8	39.9	33.7	33.5	45.9	45.3	41.7	34.0
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	9.6	19.9	34.5	39.2	35.2	27.6	27.1	35.5	35.1	31.5	27.8
OTHER JUSTICE	2.3	2.3	6.0	4.6	4.7	6.2	6.3	10.4	10.2	10.2	6.2
DEPARTMENT OF LABOR, TOTAL	23.0	18.3	22.5	25.4	27.8	28.1	97.6	109.2	137.7	107.2	36.8
DEPARTMENT OF STATE, TOTAL	18.4	20.2	24.5	28.4	25.9	40.1	57.4	3.2	2.2	1.9	1.8
AGENCY FOR INTERNAT'L DEVMNT	17.9	18.7	23.0	27.1	24.3	37.8	54.5	N/A	N/A	N/A	N/A
OTHER STATE	.6	1.5	1.6	1.2	1.6	2.3	2.8	3.2	2.2	1.9	1.8
DEPT OF TRANSPORTATION, TOTAL	273.7	312.3	328.4	324.5	323.6	346.0	364.1	356.2	374.7	378.6	361.3
FEDERAL AVIATION ADMIN	106.1	88.1	115.2	110.9	112.7	99.8	99.2	101.9	104.2	121.5	107.4
FEDERAL HIGHWAY ADMIN	22.8	23.4	33.1	26.4	42.5	52.6	52.5	48.7	53.1	53.1	51.1
FEDERAL RAILROAD ADMIN	16.7	31.8	34.4	42.0	40.5	45.6	51.5	51.7	53.2	38.2	33.6
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	34.8	47.6	44.4	36.2	33.8	49.3	68.3	53.4	60.1	61.7	65.1
URBAN MASS TRANS ADMIN	56.9	69.0	54.1	59.1	46.9	50.4	52.5	50.5	58.9	52.5	50.8
OTHER TRANSPORTATION	36.4	52.4	47.1	50.0	47.2	48.3	40.1	49.9	45.2	51.6	53.3
DEPT OF THE TREASURY, TOTAL	1.3	1.0	1.1	1.7	3.7	4.9	9.9	9.5	10.9	13.0	14.0

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TABLE C-109. FEDERAL OUTLAYS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1972-82

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1972	1973	1974	1975	1976	1977	1978	1979	1980	ESTIMATES	
										1981	1982
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	1,297.7	1,363.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	N/A	1,488.9	1,835.4	2,189.5	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	133.1	144.7	161.3	207.2	259.0	281.3	310.3	386.5	384.7	343.7	327.2
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	75.8	107.8	161.5	155.4
NAT'L AERONAUTICS & SPACE ADMIN	3,372.5	3,270.5	3,181.1	3,181.2	3,548.1	3,840.3	3,858.9	4,063.8	4,711.3	5,117.6	5,741.7
NATIONAL SCIENCE FOUNDATION	417.5	427.8	570.7	571.3	619.0	649.6	700.5	775.2	830.6	896.3	903.8
NUCLEAR REGULATORY COMMISSION	N/A	N/A	42.3	55.8	73.3	101.7	125.4	137.5	175.4	199.4	215.6
OFFICE OF ECONOMIC OPPORTUNITY	81.2	76.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	66.5	75.0	80.4	94.8	97.7	106.9	114.3	120.3	134.4	140.8	148.3
ALL OTHER AGENCIES	39.8	47.9	105.5	104.7	84.0	104.9	128.1	136.5	183.8	214.2	213.0

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-110. FEDERAL OUTLAYS FOR R&D PLANT, BY AGENCY: FISCAL YEARS 1972-82

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1972	1973	1974	1975	1976	1977	1978	1979	1980	ESTIMATES	
										1981	1982
TOTAL, ALL AGENCIES	564.4	638.4	704.6	829.7	800.6	800.2	1,107.8	1,202.8	1,481.7	1,608.8	1,434.9
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	9.7	8.6	5.9	7.9	8.8	22.5	18.6	21.7	27.7	50.8	31.6
DEPARTMENT OF COMMERCE, TOTAL	4.1	5.8	11.9	10.5	7.8	5.7	3.5	1.9	4.9	1.3	5.9
DEPARTMENT OF DEFENSE, TOTAL	158.4	157.0	164.9	152.9	144.2	125.6	312.6	235.8	204.7	210.0	228.9
DEPARTMENT OF THE ARMY	30.4	46.0	31.4	30.0	20.6	14.8	6.8	2.1	7.6	6.9	10.1
DEPARTMENT OF THE NAVY	37.4	32.5	47.5	47.8	59.3	63.6	49.1	52.9	90.9	87.2	104.9
DEPARTMENT OF THE AIR FORCE	63.5	55.4	68.2	54.5	57.1	40.0	250.1	164.9	103.0	112.0	109.0
DEFENSE AGENCIES	25.0	23.0	17.7	20.6	7.2	7.2	6.6	15.9	3.2	3.9	4.9
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	427.1	481.3	653.5	962.8	1,093.0	957.0
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	37.3	62.7	33.3	85.9	52.4	45.6	68.0	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	73.4	75.9	40.7	43.2
DEPT OF THE INTERIOR, TOTAL	4.3	16.7	2.0	2.4	.8	4.4	7.7	9.0	8.7	3.3	.7
DEPARTMENT OF STATE, TOTAL	3.3	.6	.2	.3	1.2	4.0	.1	-	-	-	-
DEPT OF TRANSPORTATION, TOTAL	13.3	25.0	35.4	14.7	12.1	17.5	13.2	16.2	15.3	15.2	19.2
DEPT OF THE TREASURY, TOTAL	*	*	*	*	.1	.1	*	*	*	.1	.1
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	253.5	261.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	N/A	336.1	411.2	364.2	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	.7	3.0	10.9	11.3	6.7	1.6	2.2	2.4	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.5	6.6	6.8	7.3
NAT'L AERONAUTICS & SPACE ADMIN	50.3	44.7	75.1	85.3	120.9	105.0	124.3	132.7	140.3	156.4	153.5
NATIONAL SCIENCE FOUNDATION	17.5	43.1	14.0	29.1	50.1	25.1	38.0	29.4	17.5	12.8	15.3
NUCLEAR REGULATORY COMMISSION	N/A	N/A	3.8	2.6	3.5	6.1	6.2	8.0	7.4	3.1	7.1
VETERANS ADMINISTRATION	9.5	7.8	5.3	2.2	11.8	5.9	9.7	2.8	4.2	6.1	10.0
ALL OTHER AGENCIES	1.3	2.3	5.8	13.2	16.0	4.0	22.3	11.5	3.7	3.3	3.7

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-111. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1972-82

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1972	1973	1974	1975	1976	1977	1978	1979	1980	ESTIMATES	
										1981	1982
TOTAL, ALL AGENCIES	17,098.0	17,574.5	18,176.5	19,859.5	21,616.4	25,350.2	27,683.0	30,453.2	33,236.1	37,026.0	42,016.7
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	357.4	369.4	387.5	427.9	478.6	559.9	645.9	685.7	744.5	796.9	889.2
AGRICULTURAL COOPERATIVE SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.6	2.5	2.5
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	N/A	30.5	32.7	35.5	N/A	N/A	N/A
ECONOMIC RESEARCH SVC	16.0	16.9	18.1	21.3	24.0	N/A	N/A	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	1.1	1.2	1.4	1.2	1.2	N/A	N/A	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.7	.7	.6	1.2	1.9	N/A	N/A	N/A	N/A	N/A	N/A
ECONOMICS & STATISTICS SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31.1	36.6	39.0
FOREST SERVICE	58.7	59.6	69.6	81.5	82.8	92.1	108.3	111.0	115.2	125.4	135.8
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	N/A	437.3	505.0	537.5	589.3	624.3	702.7
AGRICULTURAL RESEARCH	198.0	201.2	208.3	221.6	255.3	310.1	347.5	365.0	405.0	423.4	468.5
COOPERATIVE RESEARCH	82.6	89.4	89.4	101.1	113.4	127.3	157.4	172.6	184.2	200.9	234.2
TECHNICAL INFO SYSTEMS	.2	.3	.1	*	*	-	-	-	-	-	-
OTHER AGRICULTURE	-	-	-	-	-	-	-	1.6	7.4	8.1	9.2
DEPARTMENT OF COMMERCE, TOTAL	194.7	198.5	192.2	224.9	235.5	251.8	287.7	311.8	347.2	337.7	297.6
NATIONAL BUREAU OF STANDARDS	36.6	38.9	41.1	44.6	47.9	53.9	59.1	69.3	76.4	83.6	103.0
NAT'L OCEANIC & ATMOS ADMIN	120.1	119.3	117.0	135.1	139.1	147.2	163.7	171.2	203.6	198.1	165.4
OTHER COMMERCE	38.0	40.2	34.1	45.3	48.5	50.7	64.9	71.3	57.1	56.0	29.1
DEPARTMENT OF DEFENSE, TOTAL	8,492.9	8,550.6	8,589.5	9,179.6	9,798.1	11,409.0	11,786.2	12,776.4	14,189.2	17,099.7	21,831.0
DEPARTMENT OF THE ARMY	2,103.7	2,030.7	2,042.0	1,920.7	2,026.0	2,458.2	2,556.5	2,772.5	2,993.5	3,306.1	4,046.5
DEPARTMENT OF THE NAVY	2,559.7	2,690.5	2,772.6	3,162.8	3,373.8	3,878.6	4,046.7	4,403.1	4,789.3	5,161.9	6,178.2
DEPARTMENT OF THE AIR FORCE	3,325.1	3,344.1	3,283.9	3,573.1	3,799.6	4,381.1	4,422.4	4,693.1	5,319.0	7,312.5	9,668.5
DEFENSE AGENCIES	500.4	457.1	464.1	497.4	573.9	659.5	724.5	878.4	1,049.2	1,282.3	1,858.7
DEFENSE CIVIL PREPAREDNESS AGENCY	4.0	3.2	2.7	1.7	.7	1.3	7.5	N/A	N/A	N/A	N/A
DIRECTOR OF TEST & EVALUATION	N/A	25.1	24.2	23.9	24.1	30.2	28.6	29.3	37.9	37.0	49.0
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	4,097.2	4,935.5	5,483.2	5,777.5	6,111.0	5,547.7
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,806.1	1,879.1	2,331.0	2,436.5	2,616.7	2,955.9	3,281.5	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	122.2	155.6	139.4	139.5	153.0	180.2	N/A	N/A	N/A	N/A
HLTH SVCS & MENTAL HLTH ADMIN	249.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	-	106.8	75.7	69.9	63.7	64.9	89.5	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	1,321.1	1,355.5	1,777.3	1,918.2	2,092.5	2,411.7	2,654.2	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	130.2	58.3	51.5	45.9	58.2	31.1	32.9	N/A	N/A	N/A	N/A
OTHER HEW	105.0	236.4	270.9	263.1	262.8	295.3	324.7	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,558.4	3,810.8	3,946.9	4,220.8
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	214.4	233.5	239.1	261.4
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,000.8	3,211.2	3,362.1	3,586.6
OTHER HHS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	343.2	366.1	345.7	372.8
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	49.1	57.8	64.8	62.0	67.6	52.1	69.7	67.9	56.0	51.3	51.4
DEPT OF THE INTERIOR, TOTAL	232.5	265.8	194.5	307.2	339.1	319.7	374.0	410.8	418.8	428.3	398.4
BUREAU OF MINES	70.9	77.5	66.1	107.6	131.3	105.3	121.1	121.3	114.4	112.7	107.7
GEOLOGICAL SURVEY	51.6	67.3	66.6	106.6	110.3	117.5	133.7	145.6	146.3	164.3	175.4
OTHER INTERIOR	110.0	121.0	61.8	93.0	97.5	96.8	119.3	143.9	158.0	151.4	115.3
DEPARTMENT OF JUSTICE, TOTAL	23.4	33.2	34.7	44.3	33.9	27.7	60.9	43.0	41.5	34.2	26.2
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	21.0	30.4	27.3	40.9	29.2	21.8	51.6	32.2	33.2	25.8	18.4
OTHER JUSTICE	2.4	2.8	7.4	3.4	4.6	5.8	9.3	10.7	8.4	8.3	7.8
DEPARTMENT OF LABOR, TOTAL	23.1	19.9	23.8	25.4	28.5	29.6	97.8	137.0	138.1	107.6	37.1
DEPARTMENT OF STATE, TOTAL	29.2	26.6	22.9	27.9	44.5	77.6	85.4	3.2	2.2	1.9	1.8
AGENCY FOR INTERNAT'L DEVMNT	28.6	25.1	21.4	26.7	42.9	75.3	82.6	N/A	N/A	N/A	N/A
OTHER STATE	.6	1.5	1.5	1.2	1.6	2.3	2.8	3.2	2.2	1.9	1.8
DEPT OF TRANSPORTATION, TOTAL	336.3	348.9	383.2	324.8	308.7	377.1	422.4	392.7	384.5	415.0	421.8
FEDERAL AVIATION ADMIN	102.4	81.0	125.4	109.0	100.1	106.4	111.5	120.4	108.8	125.0	128.4
FEDERAL HIGHWAY ADMIN	20.8	23.7	41.2	45.1	29.3	55.9	52.1	53.5	58.3	56.0	56.1
FEDERAL RAILROAD ADMIN	36.6	46.9	37.4	39.4	60.5	58.5	65.7	56.1	56.4	59.5	50.4
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	50.0	54.6	53.6	34.0	31.4	47.2	66.5	56.8	63.8	67.9	72.1
URBAN MASS TRANS ADMIN	63.9	74.4	69.2	49.4	48.8	61.6	69.6	58.0	54.4	56.0	57.8
OTHER TRANSPORTATION	62.5	68.3	56.4	47.8	38.6	47.5	57.0	47.8	42.9	50.6	57.1
DEPT OF THE TREASURY, TOTAL	1.3	1.0	1.1	1.7	3.8	4.9	9.9	9.6	12.1	13.3	14.0

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TABLE C-111. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1972-82

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1972	1973	1974	1975	1976	1977	1978	1979	1980	ESTIMATES	
										1981	1982
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	1,544.4	1,712.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	N/A	1,881.6	2,439.9	2,902.6	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	123.0	205.1	170.5	259.7	265.4	297.6	389.3	412.5	345.0	363.1	302.6
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	112.9	155.6	135.6	158.7
NAT'L AERONAUTICS & SPACE ADMIN .	3,202.5	3,130.2	3,100.5	3,207.1	3,529.0	3,821.5	4,037.8	4,558.5	5,243.2	5,522.7	6,122.2
NATIONAL SCIENCE FOUNDATION	473.5	537.0	568.1	618.1	661.8	724.1	788.5	838.1	900.5	951.8	1,019.7
NUCLEAR REGULATORY COMMISSION ...	N/A	N/A	46.1	67.2	98.1	119.4	140.8	157.4	190.4	216.2	231.9
OFFICE OF ECONOMIC OPPORTUNITY ..	92.7	87.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	71.3	84.6	86.9	97.0	109.5	112.9	118.1	132.1	137.8	151.7	179.6
ALL OTHER AGENCIES	44.8	66.7	97.6	108.3	95.0	112.4	151.5	195.9	201.6	204.1	199.3

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-112. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1972-92

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1972	1973	1974	1975	1976	1977	1978	1979	1980	ESTIMATES	
										1981	1982
TOTAL, ALL AGENCIES	16,495.9	16,800.2	17,410.1	19,038.8	20,779.7	23,983.0	26,387.3	28,977.7	31,680.4	35,360.5	40,602.0
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	349.6	366.5	378.7	420.1	462.4	547.0	621.3	663.0	687.6	770.3	860.0
AGRICULTURAL COOPERATIVE SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.6	2.5	2.5
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	N/A	30.5	32.7	35.5	N/A	N/A	N/A
ECONOMIC RESEARCH SVC	16.0	16.9	18.1	21.3	24.0	N/A	N/A	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	1.1	1.2	1.4	1.2	1.2	N/A	N/A	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.7	.7	.6	1.2	1.9	N/A	N/A	N/A	N/A	N/A	N/A
ECONOMICS & STATISTICS SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31.1	36.6	39.0
FOREST SERVICE	55.2	58.4	65.5	78.2	79.9	90.3	105.6	107.5	111.5	122.2	134.3
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	N/A	426.2	483.0	518.4	536.0	600.9	675.1
AGRICULTURAL RESEARCH	193.8	199.5	203.5	217.1	242.1	298.9	325.5	345.8	351.8	400.0	440.9
COOPERATIVE RESEARCH	82.6	89.4	89.4	101.1	113.4	127.3	157.4	172.6	184.2	200.9	234.2
TECHNICAL INFO SYSTEMS	.2	.3	.1	*	*	-	-	-	-	-	-
OTHER AGRICULTURE	-	-	-	-	-	-	-	1.6	7.4	8.1	9.2
DEPARTMENT OF COMMERCE, TOTAL	187.3	190.6	180.6	215.4	228.9	244.7	283.7	309.4	342.5	336.8	288.0
NATIONAL BUREAU OF STANDARDS	34.7	36.8	40.2	43.2	47.4	53.2	58.3	67.8	76.2	83.0	93.5
NAT'L OCEANIC & ATMOS ADMIN	115.2	115.6	109.1	128.0	135.1	145.7	161.5	171.2	199.8	197.8	165.4
OTHER COMMERCE	37.4	38.1	31.3	44.2	46.3	45.8	63.9	70.4	66.6	56.0	29.1
DEPARTMENT OF DEFENSE, TOTAL	9,318.1	8,404.2	8,420.4	9,012.5	9,654.7	10,963.4	11,553.6	12,506.2	13,981.0	16,864.1	21,523.2
DEPARTMENT OF THE ARMY	2,064.2	2,013.6	2,009.9	1,896.7	2,013.7	2,441.9	2,548.9	2,768.7	2,980.0	3,291.0	4,020.3
DEPARTMENT OF THE NAVY	2,519.4	2,654.8	2,718.5	3,100.2	3,328.0	3,817.4	3,998.4	4,335.0	4,706.1	5,061.8	5,057.6
DEPARTMENT OF THE AIR FORCE	3,254.3	3,273.5	3,216.2	3,513.5	3,726.6	4,031.1	4,262.3	4,525.6	5,211.0	7,196.0	9,542.4
DEFENSE AGENCIES	476.4	434.1	448.9	476.5	561.6	641.4	707.9	847.6	1,046.0	1,278.4	1,853.9
DEFENSE CIVIL PREPAREDNESS AGENCY	4.3	3.2	2.7	1.7	.7	1.3	7.5	N/A	N/A	N/A	N/A
DIRECTOR OF TEST & EVALUATION	N/A	25.1	24.2	23.9	24.1	30.2	28.6	29.3	37.9	37.0	49.0
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	3,536.2	4,244.8	4,638.8	4,753.7	4,926.7	4,690.2
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,751.1	1,837.6	2,290.1	2,397.5	2,583.6	2,823.3	3,207.3	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	122.2	155.6	139.4	139.5	153.0	180.2	N/A	N/A	N/A	N/A
HLTH SVCS & MENTAL HLTH ADMIN	244.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	-	106.8	75.7	69.9	63.7	64.9	89.5	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	1,271.3	1,314.2	1,736.8	1,879.9	2,060.2	2,279.9	2,580.9	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	130.1	58.3	51.5	45.9	58.2	31.1	32.9	N/A	N/A	N/A	N/A
OTHER HEW	105.0	236.1	270.5	262.4	261.9	294.5	323.8	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,504.9	3,780.2	3,904.8	4,158.6
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	214.3	233.5	233.7	250.0
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2,953.1	3,181.8	3,328.3	3,570.8
OTHER HHS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	337.5	364.9	342.7	337.8
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	49.1	57.8	64.8	62.0	67.6	52.1	69.7	67.9	56.0	51.3	51.4
DEPT OF THE INTERIOR, TOTAL	218.7	243.7	192.4	303.3	333.2	314.7	359.0	405.8	411.3	422.9	397.8
BUREAU OF MINES	70.9	77.5	66.1	107.6	131.3	101.9	114.0	121.0	113.4	110.7	107.7
GEOLOGICAL SURVEY	51.5	66.6	66.2	106.6	110.3	117.5	133.7	145.6	146.3	164.3	175.4
OTHER INTERIOR	96.3	99.6	60.1	89.1	91.6	95.3	111.4	139.2	151.5	148.0	114.7
DEPARTMENT OF JUSTICE, TOTAL	23.4	33.2	34.7	44.3	33.9	27.7	60.9	43.0	41.5	34.2	26.2
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	21.0	30.4	27.3	40.9	29.2	21.8	51.6	32.2	33.2	25.8	18.4
OTHER JUSTICE	2.4	2.8	7.4	3.4	4.0	5.8	9.3	10.7	8.4	8.3	7.8
DEPARTMENT OF LABOR, TOTAL	23.1	19.9	23.8	25.4	28.5	29.6	97.8	137.0	138.1	107.6	37.1
DEPARTMENT OF STATE, TOTAL	26.6	26.2	22.5	27.9	39.4	61.4	85.2	3.2	2.2	1.9	1.8
AGENCY FOR INTERNAT'L DEVMNT	26.0	24.7	21.1	26.7	37.8	59.1	82.4	N/A	N/A	N/A	N/A
OTHER STATE	.6	1.5	1.5	1.2	1.6	2.3	2.8	3.2	2.2	1.9	1.8
DEPT OF TRANSPORTATION, TOTAL	310.5	310.6	369.8	311.6	294.5	354.6	408.3	370.1	361.2	399.4	404.0
FEDERAL AVIATION ADMIN	100.9	79.5	125.0	105.6	98.1	103.4	110.5	110.5	103.1	120.1	120.9
FEDERAL HIGHWAY ADMIN	20.7	23.6	40.8	44.7	28.9	55.5	51.7	52.9	51.1	55.8	55.8
FEDERAL RAILROAD ADMIN	26.3	35.5	33.5	32.4	50.4	41.9	53.9	44.2	46.2	49.5	41.0
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	50.0	54.6	53.6	34.0	31.4	47.0	66.3	56.6	63.6	67.4	71.5
URBAN MASS TRANS ADMIN	58.8	66.2	65.6	47.7	47.5	59.9	69.6	58.0	54.4	56.0	57.8
OTHER TRANSPORTATION	53.9	51.3	51.3	47.2	38.2	46.9	56.3	47.8	42.9	50.6	57.1
DEPT OF THE TREASURY, TOTAL	1.3	1.0	1.1	1.7	3.7	4.8	9.9	9.5	12.0	13.2	14.0

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TABLE C-112. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1972-82

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1972	1973	1974	1975	1976	1977	1978	1979	1980	ESTIMATES	
										1981	1982
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	1,297.7	1,363.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	N/A	1,488.9	2,047.3	2,463.8	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	122.4	180.6	169.2	257.7	259.1	295.5	384.6	410.1	345.0	363.1	302.6
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	106.5	149.3	127.9	151.2
NAT'L AERONAUTICS & SPACE ADMIN	3,157.2	3,060.9	3,002.2	3,064.4	3,446.8	3,703.4	3,875.4	4,411.0	5,084.1	5,407.7	6,017.4
NATIONAL SCIENCE FOUNDATION	454.8	479.9	556.4	595.0	609.3	697.0	748.8	807.9	881.8	937.4	999.9
NUCLEAR REGULATORY COMMISSION	N/A	N/A	42.3	64.2	88.4	112.3	133.9	148.8	182.7	207.7	224.5
OFFICE OF ECONOMIC OPPORTUNITY	92.7	87.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	69.1	74.3	84.8	94.8	97.7	107.0	114.0	127.0	133.4	145.9	152.9
ALL OTHER AGENCIES	43.2	62.0	87.4	93.9	84.2	108.5	129.1	141.5	197.4	200.4	195.3

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-113. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY: FISCAL YEARS 1972-82

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1972	1973	1974	1975	1976	1977	1978	1979	1980	ESTIMATES	
										1981	1982
TOTAL, ALL AGENCIES	602.1	774.3	766.3	820.7	836.7	1,367.2	1,295.7	1,475.5	1,555.7	1,665.6	1,414.7
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	7.8	2.9	8.8	7.8	16.1	12.9	24.7	22.6	56.9	26.6	29.1
DEPARTMENT OF COMMERCE, TOTAL ...	7.4	7.9	11.6	9.5	6.6	7.1	4.1	2.4	4.6	.9	9.6
DEPARTMENT OF DEFENSE, TOTAL	174.7	146.4	169.1	167.1	143.4	445.6	232.6	270.2	208.2	235.6	277.8
DEPARTMENT OF THE ARMY	39.5	17.1	32.1	23.9	12.3	16.3	7.6	3.8	13.8	15.1	26.2
DEPARTMENT OF THE NAVY	40.4	35.7	54.0	62.7	45.8	61.2	48.3	68.1	83.2	100.1	120.6
DEPARTMENT OF THE AIR FORCE ...	70.8	70.6	67.7	59.6	73.0	350.0	160.1	167.5	108.0	116.5	126.1
DEFENSE AGENCIES	24.1	23.0	15.3	20.9	12.3	18.1	16.6	30.8	3.2	3.9	4.9
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	561.0	690.7	844.4	1,024.1	1,184.3	857.4
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	55.0	41.6	40.9	39.1	33.1	132.6	74.3	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	53.5	30.6	42.1	52.2
DEPT OF THE INTERIOR, TOTAL	13.8	22.0	2.1	3.9	5.9	5.0	15.0	5.0	7.5	5.4	.6
DEPARTMENT OF STATE, TOTAL	2.6	.4	.4	-	5.1	16.2	.2	-	-	-	-
DEPT OF TRANSPORTATION, TOTAL ...	25.8	38.2	13.4	13.3	14.2	22.5	14.1	22.6	23.3	15.6	17.8
DEPT OF THE TREASURY, TOTAL	*	*	*	*	.1	.1	*	*	*	.1	.1
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	246.7	349.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	N/A	392.7	392.6	438.8	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	.7	24.5	1.2	2.1	6.3	2.1	4.6	2.4	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.4	6.3	7.7	7.6
NAT'L AERONAUTICS & SPACE ADMIN .	45.2	69.3	98.4	142.7	82.1	118.1	162.3	147.5	159.1	115.0	104.8
NATIONAL SCIENCE FOUNDATION	18.6	57.1	11.7	23.1	52.6	27.1	39.7	30.2	18.7	14.4	19.8
NUCLEAR REGULATORY COMMISSION ...	N/A	N/A	3.8	3.0	9.6	7.1	6.9	8.6	7.7	8.5	7.4
VETERANS ADMINISTRATION	2.2	10.3	2.1	2.2	11.8	5.9	4.1	5.1	4.4	5.8	26.7
ALL OTHER AGENCIES	1.5	4.6	10.2	14.4	10.8	3.9	22.4	54.4	4.2	3.7	3.9

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-114. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT BY CHARACTER OF WORK, AND R&D PLANT: FISCAL YEARS 1972-82

(MILLIONS OF DOLLARS)

FISCAL YEARS	TOTAL	RESEARCH		DEVELOPMENT	R&D PLANT
		BASIC	APPLIED		
1972..........................	17,098.0	2,223.2	3,324.7	10,948.2	602.1
1973..........................	17,574.5	2,241.7	3,339.8	11,218.8	774.3
1974..........................	18,176.5	2,398.1	3,776.9	11,235.0	766.3
1975..........................	19,859.5	2,600.3	4,129.4	12,309.2	820.7
1976..........................	21,616.4	2,778.8	4,840.6	13,160.3	836.7
1977..........................	25,350.2	3,269.5	5,244.7	15,466.7	1,367.2
1978..........................	27,683.0	3,710.6	5,896.1	16,780.6	1,295.7
1979..........................	30,453.2	4,205.4	6,329.9	18,442.8	1,475.5
1980..........................	33,236.1	4,688.2	6,909.2	20,083.0	1,555.7
1981 (ESTIMATED)..........	37,026.0	5,036.7	7,322.6	23,001.2	1,665.6
1982 (ESTIMATED)..........	42,016.7	5,551.0	7,982.9	27,068.2	1,414.7

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-115. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY SELECTED AGENCY: FISCAL YEARS 1972-82

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1972	1973	1974	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL AGENCIES	5,567.7	5,581.4	6,175.2	6,729.7	7,619.4	8,514.2	9,606.8	10,535.0	11,597.4	12,359.3	13,533.5
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	337.2	354.1	369.1	401.9	442.2	524.0	594.5	631.9	657.4	738.7	825.7
AGRICULTURAL COOPERATIVE SVC ..	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.6	2.5	2.5
ECON, STAT & COOPERATIVES SVC .	N/A	N/A	N/A	N/A	N/A	29.7	32.7	35.5	N/A	N/A	N/A
ECONOMIC RESEARCH SVC	16.3	15.9	18.1	21.3	24.0	N/A	N/A	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	1.1	1.2	1.4	1.2	1.2	N/A	N/A	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.5	.5	.4	1.0	1.6	N/A	N/A	N/A	N/A	N/A	N/A
ECONOMICS & STATISTICS SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31.1	36.6	39.0
FOREST SERVICE	52.9	55.1	62.3	73.3	74.5	86.1	100.7	102.5	136.1	116.2	127.6
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	N/A	409.2	461.1	493.5	512.8	576.9	649.3
AGRICULTURAL RESEARCH	183.9	189.7	193.4	204.1	227.6	281.0	303.7	320.9	329.6	376.0	415.1
COOPERATIVE RESEARCH	92.5	89.4	99.4	101.1	113.4	127.3	157.4	172.6	184.2	200.9	234.2
TECHNICAL INFO SYSTEMS	.2	.3	.1	*	*	-	-	-	-	-	-
OTHER AGRICULTURE	-	-	-	-	-	-	-	.4	5.9	6.5	7.4
DEPARTMENT OF COMMERCE, TOTAL ...	143.4	130.2	129.2	144.4	155.7	176.1	192.8	219.5	254.4	257.4	223.7
NATIONAL BUREAU OF STANDARDS ..	29.9	31.0	32.7	34.7	37.5	45.0	48.5	51.8	59.9	65.1	75.5
NAT'L OCEANIC & ATMOS ADMIN ...	90.2	89.1	87.1	99.7	104.9	115.8	127.9	142.7	169.8	168.0	132.7
OTHER COMMERCE	23.3	10.0	9.4	10.0	13.3	15.4	16.3	25.0	26.7	24.2	20.5
DEPARTMENT OF DEFENSE, TOTAL	1,504.5	1,436.1	1,434.4	1,431.0	1,527.5	1,715.9	1,824.0	2,014.1	2,261.8	2,584.0	3,149.2
DEPARTMENT OF THE ARMY	371.5	377.1	386.5	336.4	362.4	398.0	409.8	448.6	479.3	513.8	639.5
DEPARTMENT OF THE NAVY	406.4	386.3	401.3	406.5	438.0	497.4	526.3	567.3	611.1	701.5	803.4
DEPARTMENT OF THE AIR FORCE ...	342.3	341.0	347.7	355.8	382.3	425.8	448.7	492.3	537.3	608.2	667.3
DEFENSE AGENCIES	380.4	328.5	322.2	330.6	344.1	393.4	431.7	505.9	634.1	760.5	1,032.9
DEFENSE CIVIL PREPAREDNESS AGENCY	4.0	3.2	2.7	1.7	.7	1.3	7.5	N/A	N/A	N/A	N/A
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	891.3	1,102.2	1,131.8	1,277.3	1,407.4	1,620.5
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,432.3	1,444.2	1,946.7	1,924.8	2,150.7	2,414.3	2,740.7	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	122.2	155.6	139.4	136.6	152.0	178.8	N/A	N/A	N/A	N/A
HLTH SVCS & MENTAL HLTH ADMIN .	200.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION ..	-	16.1	9.5	4.1	10.8	27.1	34.6	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH .	1,099.4	1,132.1	1,489.6	1,604.2	1,767.7	1,968.7	2,232.6	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	36.3	6.6	6.4	5.3	21.4	11.9	13.3	N/A	N/A	N/A	N/A
OTHER HEW	96.2	167.2	185.5	171.9	214.2	254.6	281.4	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,015.7	3,332.8	3,470.5	3,699.7
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	213.5	233.5	233.7	260.0
NATIONAL INSTITUTES OF HEALTH .	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2,530.1	2,787.5	2,934.3	3,154.1
OTHER HHS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	272.0	311.8	302.5	284.7
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	12.7	19.4	33.8	33.5	36.9	32.7	30.5	23.8	19.6	19.1	20.4
DEPT OF THE INTERIOR, TOTAL	147.3	160.2	143.5	234.1	259.5	255.9	283.5	339.5	354.4	364.4	352.3
BUREAU OF MINES	40.7	41.5	30.5	52.9	73.3	52.3	57.0	79.1	82.8	79.5	77.5
GEOLOGICAL SURVEY	51.5	62.9	66.2	106.6	110.3	117.5	133.7	145.1	145.8	164.3	174.9
OTHER INTERIOR	55.1	55.8	46.7	74.5	75.8	86.2	92.8	115.3	125.8	120.6	100.4
DEPARTMENT OF JUSTICE, TOTAL	12.4	7.0	18.6	18.9	18.3	17.6	45.7	28.8	28.8	23.4	17.6
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	11.2	5.5	16.9	17.9	17.7	16.4	43.3	25.9	25.6	19.5	14.7
OTHER JUSTICE	1.2	1.6	1.7	1.0	.6	1.2	2.4	2.9	3.1	3.8	2.9
DEPARTMENT OF LABOR, TOTAL	13.3	13.3	17.2	15.3	18.0	18.7	25.7	42.1	36.4	36.4	29.4
DEPARTMENT OF STATE, TOTAL	25.7	24.6	17.8	22.5	25.1	38.3	49.1	2.7	2.0	1.7	1.9
AGENCY FOR INTERNAT'L DEVMNT ..	25.2	23.9	16.8	21.7	24.0	36.2	46.6	N/A	N/A	N/A	N/A
OTHER STATE	.6	.8	1.1	.7	1.1	2.1	2.5	2.7	2.0	1.7	1.8
DEPT OF TRANSPORTATION, TOTAL ...	98.2	77.2	61.8	53.8	31.1	51.8	66.5	67.0	82.4	91.6	91.6
FEDERAL AVIATION ADMIN	22.2	17.8	13.9	14.1	3.6	4.7	6.8	7.5	9.2	9.5	9.0
FEDERAL HIGHWAY ADMIN	20.3	1.8	3.3	3.4	1.9	5.3	4.9	4.4	4.6	4.7	4.7
FEDERAL RAILROAD ADMIN	9.3	15.4	1.6	2.7	8.6	6.6	9.2	7.5	7.9	8.4	7.0
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	20.7	21.7	14.9	12.0	9.9	27.5	38.0	30.0	38.6	38.4	37.3
URBAN MASS TRANS ADMIN	7.8	6.3	6.2	2.9	.6	1.0	1.1	1.1	5.9	8.5	9.5
OTHER TRANSPORTATION	17.9	14.2	21.9	18.7	6.5	6.7	6.5	16.5	14.2	22.1	24.1
DEPT OF THE TREASURY, TOTAL	.5	.4	.5	.4	1.5	2.1	4.1	4.7	5.7	6.6	7.6

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TABLE C-115. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY SELECTED AGENCY: FISCAL YEARS 1972-82

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1972	1973	1974	1975	1976	1977	1978	1979	1980	ESTIMATES	
										1981	1982
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	417.1	424.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	N/A	464.7	593.4	746.5	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	51.1	74.3	96.3	141.7	155.4	205.3	252.7	259.0	245.1	259.9	215.2
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	66.9	79.7	87.2	98.5
NAT'L AERONAUTICS & SPACE ADMIN .	764.6	793.9	845.7	935.1	1,222.8	1,206.1	1,345.2	1,451.2	1,609.6	1,554.6	1,653.9
NATIONAL SCIENCE FOUNDATION	427.3	464.0	520.3	570.0	595.8	688.3	743.5	800.0	873.7	933.4	999.9
NUCLEAR REGULATORY COMMISSION ...	N/A	N/A	42.3	64.2	88.4	112.3	133.9	148.8	182.7	207.7	224.5
OFFICE OF ECONOMIC OPPORTUNITY ..	55.3	32.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	67.1	69.7	78.7	87.1	85.1	92.3	99.4	111.4	117.9	129.2	136.9
ALL OTHER AGENCIES	38.1	56.7	58.7	57.5	58.7	71.2	72.7	82.8	88.1	98.9	108.4

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-116. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY SELECTED AGENCY: FISCAL YEARS 1972-82

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1972	1973	1974	1975	1976	1977	1978	1979	1980	ESTIMATES	
										1981	1982
TOTAL, ALL AGENCIES	2,223.0	2,241.7	2,398.2	2,600.4	2,778.7	3,269.5	3,710.7	4,205.5	4,688.2	5,036.7	5,551.0
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	137.3	142.7	145.6	154.2	171.4	204.5	242.7	256.4	275.7	319.3	362.9
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	N/A	3.8	3.9	6.4	N/A	N/A	N/A
ECONOMIC RESEARCH SVC	4.6	4.8	5.4	3.2	3.6	N/A	N/A	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.1	.1	*	.3	.4	N/A	N/A	N/A	N/A	N/A	N/A
ECONOMICS & STATISTICS SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.6	8.6	8.6
FOREST SERVICE	18.3	19.3	20.7	21.1	22.6	26.7	30.8	31.4	33.7	36.9	40.5
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	N/A	174.0	207.9	218.6	233.0	271.2	310.8
AGRICULTURAL RESEARCH	82.9	84.6	85.5	91.2	101.7	125.6	142.4	148.2	157.8	189.6	208.8
COOPERATIVE RESEARCH	31.4	34.0	34.0	38.4	43.1	48.4	65.6	70.5	75.2	81.6	102.0
OTHER AGRICULTURE	-	-	-	-	-	-	-	-	2.3	2.6	3.0
DEPARTMENT OF COMMERCE, TOTAL	44.0	16.3	18.2	20.1	22.3	23.2	23.9	24.8	29.9	32.2	36.7
NATIONAL BUREAU OF STANDARDS	4.9	4.5	6.2	5.4	5.8	6.9	5.9	8.8	12.8	16.0	19.9
NAT'L OCEANIC & ATMOS ADMIN	36.1	9.7	10.5	12.0	11.3	10.9	12.1	12.9	14.0	14.7	16.8
OTHER COMMERCE	3.1	2.2	1.5	2.8	5.2	5.4	5.9	3.1	3.1	1.6	1.0
DEPARTMENT OF DEFENSE, TOTAL	328.9	306.7	302.9	300.0	326.9	373.2	410.4	471.4	540.3	612.9	722.0
DEPARTMENT OF THE ARMY	82.5	76.9	76.3	71.7	81.4	99.0	104.1	115.0	132.2	143.1	192.4
DEPARTMENT OF THE NAVY	124.5	112.7	114.2	118.7	129.7	153.8	172.1	192.1	214.9	240.4	282.0
DEPARTMENT OF THE AIR FORCE	86.4	79.9	77.5	78.9	83.9	84.8	95.1	105.0	108.2	127.7	153.7
DEFENSE AGENCIES	35.4	37.2	34.9	30.7	31.9	35.6	39.1	59.3	85.1	101.7	93.9
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	389.5	440.5	463.0	523.1	594.7	651.7
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	665.4	667.3	850.1	903.7	986.2	1,119.5	1,292.3	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	52.6	53.3	66.2	52.6	62.7	79.9	N/A	N/A	N/A	N/A
HLTH SVCS & MENTAL HLTH ADMIN	75.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	-	11.4	4.8	1.9	5.1	11.9	18.3	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	585.7	593.0	775.3	828.5	920.3	1,032.8	1,181.1	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	3.7	.1	.2	-	-	-	-	N/A	N/A	N/A	N/A
OTHER HEW	.6	10.4	16.5	7.1	9.2	12.2	13.1	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,576.0	1,762.7	1,871.6	2,017.0
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	94.6	104.7	107.8	124.1
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,463.7	1,642.3	1,745.0	1,893.7
OTHER HHS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.7	15.6	18.1	9.2
DEPT OF THE INTERIOR, TOTAL	43.1	48.7	48.7	54.9	54.3	63.6	65.9	72.5	71.6	77.3	79.2
BUREAU OF MINES	7.8	6.9	5.8	1.9	.8	4.0	8.6	13.7	11.5	12.4	13.7
GEOLOGICAL SURVEY	21.5	27.7	27.2	38.6	39.5	40.3	46.3	49.0	47.3	54.4	50.7
OTHER INTERIOR	13.7	14.1	15.5	14.4	14.0	19.3	11.0	9.8	12.8	10.6	9.3
DEPARTMENT OF JUSTICE, TOTAL	-	2.1	2.1	9.5	4.5	5.1	14.7	7.9	9.5	6.9	5.7
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	-	2.1	2.1	9.5	4.5	5.1	14.7	7.9	9.5	6.9	5.7
DEPARTMENT OF LABOR, TOTAL	1.1	1.3	1.2	.9	1.0	.7	3.7	2.3	3.9	3.5	2.2
DEPARTMENT OF STATE, TOTAL	-	-	-	1.5	-	-	-	*	-	-	-
AGENCY FOR INTERNAT'L DEVMNT	-	-	-	1.5	-	-	-	N/A	N/A	N/A	N/A
OTHER STATE	-	-	-	-	-	-	-	*	-	-	-
DEPT OF TRANSPORTATION, TOTAL	.5	.2	.3	.1	-	-	-	-	-	.5	-
FEDERAL HIGHWAY ADMIN	.2	-	-	-	-	-	-	-	-	-	-
OTHER TRANSPORTATION	.4	.2	.3	.1	-	-	-	-	-	.5	-
DEPT OF THE TREASURY, TOTAL	-	-	-	-	-	-	-	.2	1.7	2.3	2.4
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	269.3	275.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	N/A	269.5	312.8	345.8	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	6.1	9.0	9.5	17.4	13.7	9.3	6.0	10.1	13.6	14.2	13.3
NAT'L AERONAUTICS & SPACE ADMIN	331.5	350.3	305.5	309.3	293.2	413.8	479.7	512.8	559.1	540.4	593.0
NATIONAL SCIENCE FOUNDATION	367.7	392.4	415.2	486.0	523.6	624.9	678.0	733.3	815.2	973.6	995.4
OFFICE OF ECONOMIC OPPORTUNITY	4.2	.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	3.2	3.2	3.6	3.9	8.9	9.1	8.9	9.5	14.3	15.0	15.1
ALL OTHER AGENCIES	21.8	25.3	25.5	26.1	27.0	34.2	43.9	44.6	49.8	54.9	50.4

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-117. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY SELECTED AGENCY: FISCAL YEARS 1972-82

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1972	1973	1974	1975	1976	1977	1978	1979	1980	ESTIMATES	
										1981	1982
TOTAL, ALL AGENCIES	3,324.6	3,339.7	3,777.0	4,129.3	4,840.7	5,244.7	5,896.1	6,329.5	6,909.3	7,322.6	7,982.9
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	199.9	211.4	219.5	247.8	270.9	319.6	351.8	375.5	381.8	419.4	462.8
AGRICULTURAL COOPERATIVE SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.6	2.5	2.5
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	N/A	25.9	28.8	29.1	N/A	N/A	N/A
ECONOMIC RESEARCH SVC	11.4	12.2	12.7	18.1	20.4	N/A	N/A	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	1.1	1.2	1.4	1.2	1.2	N/A	N/A	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.4	.4	.4	.7	1.1	N/A	N/A	N/A	N/A	N/A	N/A
ECONOMICS & STATISTICS SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24.5	28.0	30.4
FOREST SERVICE	34.6	36.8	41.6	52.2	51.9	59.4	69.8	71.1	72.3	79.3	87.1
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	N/A	234.3	253.2	274.8	279.8	305.7	338.5
AGRICULTURAL RESEARCH	101.0	105.1	107.9	112.9	125.9	155.4	161.3	172.7	170.8	186.5	206.3
COOPERATIVE RESEARCH	51.2	55.4	55.4	62.7	70.3	78.9	91.9	102.1	107.0	119.3	132.2
TECHNICAL INFO SYSTEMS	.2	.3	.1	*	*	-	-	-	-	-	-
OTHER AGRICULTURE	-	-	-	-	-	-	-	.4	3.6	3.9	4.4
DEPARTMENT OF COMMERCE, TOTAL	99.4	113.8	111.0	124.4	133.4	153.0	168.9	194.7	224.5	225.2	192.0
NATIONAL BUREAU OF STANDARDS	25.0	26.6	26.5	29.4	31.7	38.0	42.6	43.0	46.1	49.2	56.6
NAT'L OCEANIC & ATMOS ADMIN	54.1	79.5	76.6	87.8	93.6	104.9	115.9	129.8	154.8	153.4	116.0
OTHER COMMERCE	20.2	7.8	7.9	7.2	8.1	10.0	10.4	21.9	23.6	22.6	19.4
DEPARTMENT OF DEFENSE, TOTAL	1,175.8	1,129.4	1,131.3	1,131.0	1,200.6	1,342.7	1,413.6	1,542.6	1,721.4	1,971.1	2,426.2
DEPARTMENT OF THE ARMY	289.1	300.2	290.1	264.7	281.0	299.0	305.7	333.6	347.1	370.7	447.1
DEPARTMENT OF THE NAVY	281.8	273.7	287.1	287.8	308.3	343.6	354.2	375.2	396.2	461.1	525.4
DEPARTMENT OF THE AIR FORCE	255.9	261.1	264.1	276.9	298.4	341.0	353.7	387.2	429.1	480.5	513.6
DEFENSE AGENCIES	345.0	291.2	287.3	299.9	312.2	357.8	392.5	446.6	549.1	658.8	939.0
DEFENSE CIVIL PREPAREDNESS AGENCY	4.0	3.2	2.7	1.7	.7	1.3	7.5	N/A	N/A	N/A	N/A
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	501.8	661.7	668.9	754.2	812.7	939.1
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	766.7	776.9	996.6	1,021.1	1,164.6	1,294.8	1,448.4	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	69.6	102.3	73.2	84.1	89.3	98.8	N/A	N/A	N/A	N/A
HLTH SVCS & MENTAL HLTH ADMIN	125.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	-	4.7	4.7	2.2	5.7	15.2	16.3	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	513.7	539.1	714.3	775.7	847.4	935.9	1,051.5	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	32.3	6.6	6.3	5.3	21.4	11.9	13.3	N/A	N/A	N/A	N/A
OTHER HEW	95.5	156.8	169.0	164.8	206.0	242.5	268.4	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,439.7	1,570.1	1,598.8	1,681.9
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	118.9	129.8	125.8	135.5
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,066.4	1,145.1	1,188.6	1,270.4
OTHER HHS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	254.3	295.2	284.4	275.5
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	12.7	18.4	33.8	33.5	36.9	32.7	30.5	23.8	19.6	19.1	20.4
DEPT OF THE INTERIOR, TOTAL	104.3	111.4	94.8	179.1	205.1	192.4	217.6	266.9	282.8	287.0	273.6
BUREAU OF MINES	32.8	34.6	24.9	51.0	72.5	48.3	48.4	65.4	71.3	67.1	53.8
GEOLOGICAL SURVEY	30.1	35.1	39.0	68.0	70.8	77.2	87.4	96.1	98.5	109.9	114.2
OTHER INTERIOR	41.4	41.7	30.9	60.1	61.8	66.9	81.8	105.5	113.0	110.0	95.6
DEPARTMENT OF JUSTICE, TOTAL	12.4	4.9	16.5	9.4	13.8	12.5	31.0	20.9	19.2	16.5	11.9
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	11.2	3.4	14.8	8.5	13.2	11.3	28.6	18.0	16.1	12.8	9.0
OTHER JUSTICE	1.2	1.6	1.7	1.0	.6	1.2	2.4	2.9	3.1	3.8	2.9
DEPARTMENT OF LABOR, TOTAL	12.2	12.0	16.0	14.4	17.0	18.0	22.0	39.8	32.5	33.0	27.2
DEPARTMENT OF STATE, TOTAL	25.7	24.6	17.8	21.0	25.1	38.3	49.1	2.6	2.0	1.7	1.8
AGENCY FOR INTERNAT'L DEVMNT	25.2	23.9	16.8	20.2	24.0	36.2	46.6	N/A	N/A	N/A	N/A
OTHER STATE	.6	.8	1.1	.7	1.1	2.1	2.5	2.6	2.0	1.7	1.8
DEPT OF TRANSPORTATION, TOTAL	97.5	77.1	61.5	53.8	31.1	51.8	66.5	67.0	82.4	91.1	91.6
FEDERAL AVIATION ADMIN	22.2	17.8	13.9	14.1	3.6	4.7	6.8	7.5	8.2	9.5	9.0
FEDERAL HIGHWAY ADMIN	20.1	1.8	3.3	3.4	1.9	5.3	4.9	4.4	4.6	4.7	4.7
FEDERAL RAILROAD ADMIN	9.3	15.4	1.6	2.7	8.6	6.6	9.2	7.5	7.9	8.4	7.0
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	20.7	21.7	14.9	12.0	9.9	27.5	38.0	30.0	39.5	38.4	37.3
URBAN MASS TRANS ADMIN	7.8	6.3	6.2	2.9	.6	1.0	1.1	1.1	8.9	8.5	9.5
OTHER TRANSPORTATION	17.5	14.1	21.6	18.6	6.5	6.7	6.5	16.5	14.2	21.6	24.1
DEPT OF THE TREASURY, TOTAL	.5	.4	.5	.4	1.5	2.1	4.1	4.5	4.0	4.3	5.2

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TABLE C-117. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY SELECTED AGENCY: FISCAL YEARS 1972-82

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1972	1973	1974	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	143.3	149.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	N/A	195.2	280.7	400.7	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	45.0	65.3	86.8	124.3	141.7	197.0	246.7	248.9	231.5	245.7	201.4
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	66.9	79.7	97.2	99.5
NAT'L AERONAUTICS & SPACE ADMIN .	433.0	443.6	539.8	625.8	929.6	792.3	865.4	938.4	1,050.5	1,014.2	1,060.9
NATIONAL SCIENCE FOUNDATION	59.6	71.5	105.0	84.0	72.1	63.4	65.5	66.8	58.4	59.8	54.5
NUCLEAR REGULATORY COMMISSION ...	N/A	N/A	42.3	64.2	88.4	112.3	133.9	148.8	132.7	207.7	224.5
OFFICE OF ECONOMIC OPPORTUNITY ..	51.1	31.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	63.9	66.5	75.2	83.3	76.2	83.2	90.5	101.8	103.6	114.2	121.3
ALL OTHER AGENCIES	16.3	31.4	33.3	31.4	31.7	37.0	28.8	38.2	39.3	44.0	43.0

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-118. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY SELECTED AGENCY: FISCAL YEARS 1972-82

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1972	1973	1974	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	 1982
TOTAL, ALL AGENCIES	10,948.2	11,218.8	11,235.0	12,309.2	13,160.3	15,468.7	16,780.6	18,442.8	20,083.0	23,001.2	27,068.2
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	12.4	12.4	13.6	18.1	20.2	22.9	26.8	31.1	30.2	31.6	34.3
DEPARTMENT OF COMMERCE, TOTAL	43.9	60.4	51.4	71.0	73.1	68.6	90.9	89.9	88.1	79.4	59.3
DEPARTMENT OF DEFENSE, TOTAL	6,813.6	6,968.2	6,986.0	7,581.6	8,127.3	9,247.4	9,729.6	10,492.2	11,719.2	14,280.1	18,375.0
DEPARTMENT OF THE ARMY	1,692.6	1,636.5	1,643.4	1,560.4	1,651.3	2,043.9	2,139.1	2,320.1	2,500.7	2,777.1	3,380.8
DEPARTMENT OF THE NAVY	2,113.0	2,268.4	2,317.2	2,693.7	2,890.1	3,320.0	3,472.1	3,761.7	4,095.0	4,360.3	5,249.2
DEPARTMENT OF THE AIR FORCE	2,912.0	2,932.6	2,874.6	3,157.7	3,344.3	3,605.3	3,813.6	4,033.4	4,673.7	6,587.8	8,875.1
DEFENSE AGENCIES	96.0	105.6	126.6	145.9	217.5	248.0	276.2	341.7	411.9	517.9	820.9
DIRECTOR OF TEST & EVALUATION	N/A	25.1	24.2	23.9	24.1	30.2	28.6	29.3	37.9	37.0	49.0
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	2,645.0	3,142.6	3,506.9	3,476.4	3,519.3	3,059.4
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	319.1	393.4	443.4	472.6	432.8	409.0	466.5	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	489.2	447.4	434.3	469.9
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	36.4	39.5	31.0	28.5	30.6	19.4	39.2	44.1	36.4	32.3	31.0
DEPT OF THE INTERIOR, TOTAL	71.4	83.6	48.9	69.3	73.7	58.7	75.5	66.3	56.8	58.6	44.9
DEPARTMENT OF JUSTICE, TOTAL	11.0	26.2	16.1	25.4	15.5	10.1	15.2	14.1	12.7	10.8	8.6
DEPARTMENT OF LABOR, TOTAL	9.9	6.6	6.6	10.1	10.5	10.8	72.1	94.9	101.6	71.1	7.7
DEPARTMENT OF STATE, TOTAL	.9	1.6	4.7	5.4	14.2	23.1	36.1	.5	.3	.2	-
DEPT OF TRANSPORTATION, TOTAL	212.3	233.4	308.0	257.7	263.4	302.8	341.8	303.1	278.8	307.8	312.4
DEPT OF THE TREASURY, TOTAL	.8	.6	.7	1.3	2.3	2.7	5.8	4.8	6.3	6.6	6.3
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	880.5	938.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	N/A	1,024.2	1,453.9	1,717.3	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	71.3	106.3	72.9	115.9	103.7	90.2	132.0	151.1	99.9	103.2	87.4
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	39.6	69.7	40.7	52.7
NAT'L AERONAUTICS & SPACE ADMIN	2,392.6	2,267.0	2,156.5	2,129.3	2,224.0	2,497.3	2,530.2	2,959.8	3,474.4	3,853.1	4,363.5
NATIONAL SCIENCE FOUNDATION	27.6	15.9	36.2	25.0	13.5	8.7	5.3	7.9	8.1	4.0	-
OFFICE OF ECONOMIC OPPORTUNITY	37.4	55.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	2.0	4.5	6.1	7.7	12.6	14.7	14.6	15.6	15.5	16.7	16.0
ALL OTHER AGENCIES	5.2	5.3	28.7	36.4	25.5	37.3	56.5	58.7	109.4	101.5	87.0

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-119. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY PERFORMER: FISCAL YEARS 1972-82

(MILLIONS OF DOLLARS)

PERFORMER	1972	1973	1974	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	 1982
TOTAL	15,495.9	16,800.1	17,410.1	19,038.8	20,779.7	23,983.0	26,387.3	28,977.8	32,040.1	35,464.4	40,756.8
FEDERAL INTRAMURAL 1/	4,541.8	4,708.8	4,860.7	5,310.0	5,687.6	6,052.7	6,855.1	7,496.0	7,939.4	9,021.9	10,000.8
INDUSTRIAL FIRMS 2/	7,293.9	8,367.2	8,392.0	9,171.6	10,246.8	12,298.0	13,128.3	14,218.4	16,179.7	18,080.9	22,037.0
UNIVERSITIES AND COLLEGES	1,902.2	1,915.5	2,214.5	2,408.4	2,541.5	2,905.4	3,364.8	3,888.1	4,276.9	4,516.0	4,777.7
FFRDCS ADMINISTERED BY UNIVERSITIES	760.6	725.3	789.1	935.1	1,061.1	1,326.8	1,325.6	1,511.0	1,591.6	1,725.6	1,882.7
OTHER NONPROFIT INSTITUTIONS 2/	731.1	762.0	874.3	924.6	938.5	1,073.8	1,321.9	1,399.6	1,575.7	1,624.7	1,538.2
ALL OTHER PERFORMERS	266.3	321.2	279.4	289.2	304.3	326.2	391.6	464.8	476.7	495.4	520.5

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

2/ INCLUDES FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDCS) ADMINISTERED BY THIS SECTOR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-120. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION AND STATE: FISCAL YEARS 1969-80

(MILLIONS OF DOLLARS)

DIVISION AND STATE	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
TOTAL	15,354.6	14,930.9	15,239.9	16,261.8	16,486.1	16,990.7	18,542.3	20,247.4	23,373.7	25,619.8	27,916.8	30,477.3
NEW ENGLAND	1,085.7	1,000.3	1,145.0	1,259.8	1,264.4	1,561.8	1,650.5	1,716.2	1,963.7	2,231.1	2,585.1	2,814.4
CONNECTICUT	223.6	160.0	149.9	169.2	193.9	233.7	269.7	239.4	291.8	299.8	328.4	470.3
MAINE	14.3	13.3	13.6	16.3	9.6	10.5	11.9	15.6	18.3	25.4	23.1	25.9
MASSACHUSETTS	775.0	760.9	883.2	961.2	953.6	1,188.3	1,228.6	1,294.9	1,474.4	1,693.3	2,062.3	2,066.7
NEW HAMPSHIRE	31.0	27.3	34.0	21.5	30.6	29.3	33.6	34.7	32.6	63.7	94.1	50.2
RHODE ISLAND	32.8	29.9	50.5	68.9	59.3	74.9	75.1	101.8	110.1	120.3	140.7	149.9
VERMONT	9.0	9.5	13.7	22.8	17.5	25.1	31.6	39.7	36.6	23.7	36.5	51.3
MIDDLE ATLANTIC	2,436.1	2,516.0	2,413.5	2,481.0	2,206.7	2,160.2	2,281.3	2,439.1	2,608.1	2,802.2	3,112.3	3,250.0
NEW JERSEY	709.9	741.7	745.1	763.1	645.2	473.8	442.0	495.7	566.3	522.5	649.3	729.4
NEW YORK	1,107.0	1,235.6	1,119.5	1,075.6	932.6	1,026.3	1,058.6	1,107.4	1,204.3	1,284.1	1,363.1	1,471.2
PENNSYLVANIA	620.3	538.3	548.9	642.3	628.8	660.1	780.7	836.0	837.5	995.7	1,099.9	1,059.4
EAST NORTH CENTRAL	1,044.3	1,038.3	1,121.7	1,179.6	1,082.8	1,263.8	1,377.3	1,439.5	1,726.3	2,010.4	2,097.8	2,316.2
ILLINOIS	251.2	239.6	249.1	291.0	287.6	325.4	371.3	414.3	517.2	564.3	547.2	599.9
INDIANA	105.9	91.9	74.6	100.5	82.9	95.0	92.8	92.4	102.8	108.1	122.0	162.4
MICHIGAN	167.4	162.8	187.3	186.3	153.8	196.6	248.9	222.2	316.6	367.8	264.4	377.5
OHIO	432.6	457.3	518.1	521.7	478.8	567.3	585.2	627.8	694.8	853.3	1,053.2	1,054.7
WISCONSIN	94.2	97.1	92.6	80.1	79.6	79.6	79.2	82.8	94.8	111.9	111.0	121.7
WEST NORTH CENTRAL	328.5	475.4	786.0	906.0	830.8	607.4	574.0	681.6	974.8	1,250.7	1,277.8	1,613.5
IOWA	34.2	32.7	32.9	37.9	38.5	46.5	47.8	48.5	60.1	68.3	84.9	121.7
KANSAS	39.6	16.5	24.3	31.3	30.4	29.4	32.8	32.1	36.3	106.6	135.3	353.5
MINNESOTA	89.3	109.3	102.8	127.0	120.2	106.9	123.2	153.3	186.5	177.7	202.8	261.5
MISSOURI	141.9	291.2	596.9	679.5	608.1	387.0	330.0	404.3	639.6	927.3	778.9	801.5
NEBRASKA	11.3	10.6	10.4	11.7	13.4	14.7	20.3	21.4	24.5	33.5	31.3	31.5
NORTH DAKOTA	5.8	8.9	9.1	10.5	9.5	10.5	13.0	14.8	19.3	29.3	33.4	38.7
SOUTH DAKOTA	5.4	6.1	9.6	8.1	10.7	12.4	6.8	7.3	8.5	9.1	10.2	9.9
SOUTH ATLANTIC	2,961.3	2,899.3	3,228.3	3,560.6	3,706.0	3,752.8	3,993.2	4,228.7	4,879.6	5,288.7	5,726.9	6,430.2
DELAWARE	16.1	16.3	13.0	17.4	40.8	10.4	10.0	8.0	15.3	11.1	14.4	20.3
DISTRICT OF COLUMBIA	444.3	468.5	481.9	462.1	490.0	552.3	580.3	570.3	729.8	792.3	768.4	807.0
FLORIDA	884.5	324.3	890.4	1,022.5	952.0	783.2	796.8	788.3	919.2	947.6	1,017.3	1,323.5
GEORGIA	276.8	72.3	78.8	71.9	66.8	70.9	81.0	92.3	111.2	155.7	194.4	169.8
MARYLAND	961.8	1,063.4	1,201.2	1,318.1	1,434.8	1,528.9	1,610.3	1,811.2	2,031.4	2,126.0	2,359.8	2,595.0
NORTH CAROLINA	59.5	63.9	82.7	83.3	101.7	110.0	116.9	139.1	154.7	192.3	220.9	227.7
SOUTH CAROLINA	17.1	17.8	23.4	26.3	23.7	28.8	24.6	30.8	67.2	118.3	114.3	87.5
VIRGINIA	286.3	352.8	424.9	529.6	567.9	642.3	726.8	751.5	800.2	872.1	940.3	1,047.1
WEST VIRGINIA	15.0	19.6	32.1	29.4	28.2	25.9	46.5	37.2	50.6	73.3	107.2	152.0
EAST SOUTH CENTRAL	597.5	599.7	618.3	639.9	681.5	726.7	745.6	885.2	1,131.9	1,277.1	1,347.3	1,492.3
ALABAMA	358.4	357.2	360.0	359.0	376.5	377.4	363.1	374.4	433.7	483.7	559.6	552.7
KENTUCKY	21.4	20.4	23.1	32.1	38.1	31.3	35.2	51.0	56.6	62.1	43.0	107.9
MISSISSIPPI	26.0	28.3	46.7	60.7	57.5	76.3	57.9	71.6	95.4	97.1	100.7	109.3
TENNESSEE	191.6	193.3	188.5	187.1	209.5	241.7	289.4	388.2	546.3	644.3	644.1	722.9
WEST SOUTH CENTRAL	894.3	834.9	733.1	798.9	794.0	772.1	874.2	1,021.9	1,127.3	1,389.0	1,454.2	1,585.4
ARKANSAS	7.4	9.8	20.8	13.2	16.6	14.2	23.3	26.5	24.3	42.4	37.3	30.0
LOUISIANA	171.9	146.5	90.1	103.6	91.6	75.7	101.8	126.1	156.5	162.7	209.1	269.3
OKLAHOMA	20.1	29.5	26.3	29.1	34.8	29.9	34.5	32.1	48.2	105.0	70.1	94.5
TEXAS	695.0	649.1	595.9	653.0	651.0	652.2	714.5	837.2	898.3	1,078.9	1,137.7	1,191.3
MOUNTAIN	1,136.7	1,137.7	1,127.4	1,214.4	1,290.6	1,213.0	1,281.0	1,400.4	1,727.3	2,077.9	2,262.7	2,568.2
ARIZONA	79.2	72.3	88.7	89.9	94.8	99.5	116.3	122.5	142.5	163.4	201.4	334.6
COLORADO	264.4	274.1	264.2	369.1	410.8	323.3	267.9	248.6	324.2	393.2	442.2	573.7
IDAHO	69.6	75.0	75.3	75.9	81.8	52.2	67.2	72.7	119.8	107.0	147.1	147.7
MONTANA	8.3	11.6	17.6	19.0	19.9	13.6	28.4	29.8	47.8	27.5	41.6	45.7
NEVADA	232.3	190.9	159.0	140.3	143.1	112.5	150.0	179.7	184.3	195.7	222.1	219.5
NEW MEXICO	426.3	445.3	458.7	451.5	462.8	532.0	554.8	626.3	751.4	987.4	955.5	954.2
UTAH	49.9	51.1	55.8	58.9	66.7	68.7	80.1	101.5	133.2	161.8	211.6	243.9
WYOMING	6.9	7.2	8.1	9.9	10.7	11.0	16.3	19.4	24.2	40.8	41.0	53.9
PACIFIC	4,813.5	4,404.1	4,004.9	4,158.2	4,562.2	4,864.3	5,692.5	6,369.4	7,148.2	7,208.1	7,855.6	8,272.8
ALASKA	68.6	43.2	58.7	46.0	41.8	25.3	36.4	37.6	38.1	48.7	45.9	42.5
CALIFORNIA	4,289.8	3,871.1	3,295.4	3,473.1	3,840.2	4,075.7	4,839.6	5,496.1	6,109.1	6,141.1	6,804.0	7,133.0
HAWAII	37.7	43.3	38.3	47.4	47.9	53.1	43.0	45.5	36.9	44.6	40.8	42.5
OREGON	36.1	33.3	41.9	53.7	64.3	59.9	79.0	84.6	84.9	95.3	100.1	97.9
WASHINGTON	381.2	412.2	571.2	537.9	567.9	650.4	694.6	705.6	879.1	878.3	864.8	951.3
OUTLYING AREAS	11.6	17.3	18.6	18.4	19.7	19.6	28.8	22.4	47.8	33.7	39.4	45.3
OFFICES ABROAD	45.1	56.8	42.9	46.1	47.4	49.1	43.9	43.0	38.6	45.9	57.7	73.5

NOTES: (1) FOR EACH YEAR, THE DATA SHOWN INCLUDE THE OBLIGATIONS OF THE 10 OR 11 MAJOR R&D-SUPPORT AGENCIES IN THAT YEAR, AND REPRESENT 97 PERCENT OR MORE OF THE TOTAL FEDERAL R&D OBLIGATIONS IN THAT YEAR.

(2) ALTHOUGH THE NON-GEOGRAPHIC HISTORICAL TABLES INCORPORATE CORRECTIONS TO PREVIOUSLY REPORTED DATA THAT HAVE BEEN SUBMITTED BY THE REPORTING AGENCIES, CORRESPONDING CORRECTIONS TO THE GEOGRAPHIC DISTRIBUTIONS ARE RARELY OBTAINABLE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-121. FEDERAL OBLIGATIONS FOR R&D PLANT, BY GEOGRAPHIC DIVISION AND STATE: FISCAL YEARS 1969-80

(MILLIONS OF DOLLARS)

DIVISION AND STATE	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
TOTAL	653.5	519.5	586.0	595.6	757.5	749.9	801.0	799.2	1,334.0	1,252.0	1,393.8	1,533.1
NEW ENGLAND	29.3	15.0	15.7	24.5	15.5	17.7	22.7	22.4	36.1	34.9	59.2	24.1
CONNECTICUT	1.4	2.9	1.5	2.7	2.4	5.2	3.8	1.9	3.9	2.3	12.3	1.0
MAINE	.1	.1	-	.4	*	.2	*	*	.1	.1	.1	*
MASSACHUSETTS	25.5	10.7	9.7	16.1	8.4	9.5	11.0	14.0	24.4	28.7	36.9	20.4
NEW HAMPSHIRE	.1	*	2.0	1.5	.4	1.1	2.9	2.0	2.4	1.3	5.4	*
RHODE ISLAND	.9	1.3	2.1	2.8	4.2	.7	4.9	4.5	5.3	2.4	3.5	2.6
VERMONT	.4	*	.4	1.1	.1	1.0	-	-	-	-	*	-
MIDDLE ATLANTIC	75.1	51.5	55.7	74.1	99.7	101.4	76.8	70.6	133.9	189.3	180.7	187.4
NEW JERSEY	7.9	5.5	5.0	14.9	5.3	2.5	11.5	22.1	64.8	96.7	64.8	60.5
NEW YORK	43.7	26.7	33.9	21.9	81.8	77.1	46.4	37.5	61.0	63.8	69.4	91.4
PENNSYLVANIA	24.6	19.2	16.9	37.3	12.6	21.8	18.9	11.0	8.1	28.8	46.5	35.5
EAST NORTH CENTRAL	86.4	119.9	100.1	85.5	129.7	69.7	48.3	66.5	114.6	108.7	96.4	123.3
ILLINOIS	42.0	94.7	85.2	68.1	84.3	42.9	29.6	45.2	52.0	72.9	61.9	71.5
INDIANA	.9	.4	.9	.5	.3	.1	.1	.8	.6	.4	.7	.7
MICHIGAN	5.1	3.3	.9	2.9	4.8	.2	.6	2.0	1.1	1.9	3.0	8.3
OHIO	32.9	20.3	10.1	13.0	39.1	19.6	15.1	13.6	60.4	23.9	28.0	40.3
WISCONSIN	5.7	.5	3.1	1.0	1.1	6.9	2.9	4.9	.5	9.6	2.9	2.5
WEST NORTH CENTRAL	12.7	9.3	10.9	8.1	4.7	26.9	5.8	3.6	3.6	7.6	12.4	53.5
IOWA	1.9	1.2	1.5	.8	1.1	.5	.7	1.1	1.5	2.3	2.2	2.9
KANSAS	3.9	.1	.2	.1	.2	.1	*	.1	.1	.2	*	.1
MINNESOTA	1.1	.3	4.1	1.3	.5	23.4	.1	.5	.4	1.2	.8	.3
MISSOURI	1.3	4.2	2.2	.7	.3	.8	4.1	.5	.9	1.2	5.6	40.9
NEBRASKA	3.5	.9	1.2	1.6	1.0	1.5	.4	1.0	.2	.3	.8	2.1
NORTH DAKOTA	.5	.1	.1	.5	.1	.2	.4	.5	.6	2.3	1.4	4.1
SOUTH DAKOTA	.5	2.1	1.5	3.1	1.5	.4	-	-	*	.1	1.6	3.1
SOUTH ATLANTIC	115.7	72.3	77.0	114.1	142.9	140.5	173.7	166.9	358.5	233.4	202.0	181.2
DELAWARE	*	*	-	*	*	.1	.1	-	*	*	-	.7
DISTRICT OF COLUMBIA	8.3	6.4	5.1	9.0	31.5	1.1	7.9	21.4	11.3	11.1	22.0	14.3
FLORIDA	57.5	33.2	30.9	47.7	40.1	51.7	96.0	76.3	155.2	81.1	46.0	46.7
GEORGIA	2.3	2.0	2.3	1.8	.7	.1	.5	.2	1.2	1.8	1.0	.6
MARYLAND	30.6	20.3	29.7	36.1	51.4	60.8	40.1	36.7	80.4	82.7	64.3	53.3
NORTH CAROLINA	4.5	3.1	.4	6.0	4.8	4.1	.3	.6	66.8	3.5	3.9	8.2
SOUTH CAROLINA	3.2	1.3	1.3	1.2	3.4	7.7	3.8	3.3	2.2	6.9	9.7	3.1
VIRGINIA	4.0	3.5	7.0	11.3	7.0	14.0	23.1	11.6	24.7	29.3	42.0	41.5
WEST VIRGINIA	5.3	1.9	.4	.9	4.2	.8	1.9	16.7	16.7	17.0	13.1	12.9
EAST SOUTH CENTRAL	30.7	16.3	18.3	27.7	55.4	54.7	52.5	76.9	54.7	55.9	65.1	134.7
ALABAMA	6.2	1.8	3.9	6.7	5.1	5.6	8.4	12.3	5.3	6.5	2.6	47.9
KENTUCKY	.4	.3	.3	.1	*	.2	-	-	-	*	2.9	*
MISSISSIPPI	.2	.8	.4	.4	13.0	15.2	4.8	4.1	11.5	6.0	3.8	6.6
TENNESSEE	24.0	13.4	13.7	20.5	37.4	33.6	39.3	60.5	37.8	43.4	55.8	80.1
WEST SOUTH CENTRAL	8.0	9.4	11.7	11.2	11.9	8.2	8.9	11.1	17.2	34.6	27.3	30.8
ARKANSAS	-	.1	*	.1	.2	.4	.7	.9	2.8	.9	.2	.7
LOUISIANA	.5	1.1	5.1	.5	.4	1.6	.3	2.3	3.6	20.9	16.7	12.6
OKLAHOMA	.9	.1	.1	.2	.1	.1	.3	.2	.4	1.0	.6	3.2
TEXAS	6.5	8.1	6.5	10.4	11.1	6.1	7.6	7.8	10.4	11.8	9.7	14.2
MOUNTAIN	135.3	112.4	102.4	84.1	95.5	86.2	104.9	123.8	195.6	210.2	254.9	284.3
ARIZONA	2.0	1.5	1.3	2.3	.5	3.6	1.3	2.7	1.6	33.9	35.3	1.8
COLORADO	4.3	5.2	8.2	16.2	21.9	7.9	4.9	12.0	12.7	11.6	9.7	35.6
IDAHO	31.0	23.0	20.3	5.4	6.3	11.0	16.2	19.7	26.1	35.6	41.8	45.1
MONTANA	.5	*	.5	.1	.1	.1	.3	.1	.8	*	1.2	3.7
NEVADA	17.1	17.2	16.9	17.5	14.4	9.2	11.7	11.7	14.8	18.5	24.2	22.4
NEW MEXICO	77.5	63.5	54.1	41.6	51.6	50.3	68.1	76.6	137.9	101.7	138.6	169.5
UTAH	2.9	1.0	.6	1.0	.5	4.1	2.1	.8	1.5	8.0	2.9	1.9
WYOMING	.1	.5	.4	*	.2	*	.3	.2	.3	.9	1.2	4.3
PACIFIC	145.0	104.4	178.3	156.3	176.7	243.8	305.9	256.1	417.8	381.9	489.2	509.8
ALASKA	3.0	.5	1.4	.7	.5	.1	.9	.8	.6	.7	.8	.1
CALIFORNIA	121.2	85.9	119.8	123.4	128.0	141.1	151.1	147.3	303.3	259.5	400.2	377.4
HAWAII	.9	.5	2.2	.9	.4	.4	6.2	2.8	.5	.7	.5	.2
OREGON	1.5	2.3	1.2	1.2	.1	.1	1.2	2.0	*	2.6	.9	3.9
WASHINGTON	18.6	15.3	53.7	30.2	47.8	102.1	146.5	103.1	113.4	118.3	86.8	128.2
OUTLYING AREAS	4.5	3.5	5.2	1.8	1.4	.6	.5	.3	.1	1.7	.5	2.9
OFFICES ABROAD	20.7	5.3	10.9	8.2	24.1	.2	1.1	1.0	1.9	3.9	7.1	1.1

* INDICATES AMOUNT LESS THAN $50,000.

NOTES: (1) FOR EACH YEAR, THE DATA SHOWN INCLUDE THE OBLIGATIONS OF THE 10 OR 11 MAJOR R&D-PLANT-SUPPORT AGENCIES IN THAT YEAR, AND REPRESENT 97 PERCENT OR MORE OF THE TOTAL FEDERAL R&D PLANT OBLIGATIONS IN THAT YEAR.

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